



API Reference

# AWS HealthImaging



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# AWS HealthImaging: API Reference

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# Welcome

This is the *AWS HealthImaging API Reference*. AWS HealthImaging is a HIPAA eligible service that empowers healthcare providers, life science organizations, and their software partners to store, analyze, and share medical images in the cloud at petabyte scale. For an introduction to the service, see the [AWS HealthImaging Developer Guide](#).

## Note

We recommend using one of the AWS Software Development Kits (SDKs) for your programming language, as they take care of request authentication, serialization, and connection management. For more information, see [Tools to build on AWS](#).

The following sections list AWS HealthImaging API actions categorized according to functionality. Links are provided to actions within this Reference, along with links back to corresponding sections in the *AWS HealthImaging Developer Guide* where you can view tested code examples.

## Data store actions

- [CreateDatastore](#) – See [Creating a data store](#).
- [GetDatastore](#) – See [Getting data store properties](#).
- [ListDatastores](#) – See [Listing data stores](#).
- [DeleteDatastore](#) – See [Deleting a data store](#).

## Import job actions

- [StartDICOMImportJob](#) – See [Starting an import job](#).
- [GetDICOMImportJob](#) – See [Getting import job properties](#).
- [ListDICOMImportJobs](#) – See [Listing import jobs](#).

## Image set access actions

- [SearchImageSets](#) – See [Searching image sets](#).
- [GetImageSet](#) – See [Getting image set properties](#).
- [GetImageSetMetadata](#) – See [Getting image set metadata](#).

- [GetImageFrame](#) – See [Getting image set pixel data](#).

### Image set modification actions

- [ListImageSetVersions](#) – See [Listing image set versions](#).
- [UpdateImageSetMetadata](#) – See [Updating image set metadata](#).
- [CopyImageSet](#) – See [Copying an image set](#).
- [DeleteImageSet](#) – See [Deleting an image set](#).

### Tagging actions

- [TagResource](#) – See [Tagging a resource](#).
- [ListTagsForResource](#) – See [Listing tags for a resource](#).
- [UntagResource](#) – See [Untagging a resource](#).

This document was last published on July 1, 2024.

# Actions

The following actions are supported:

- [CopyImageSet](#)
- [CreateDatastore](#)
- [DeleteDatastore](#)
- [DeleteImageSet](#)
- [GetDatastore](#)
- [GetDICOMImportJob](#)
- [GetImageFrame](#)
- [GetImageSet](#)
- [GetImageSetMetadata](#)
- [ListDatastores](#)
- [ListDICOMImportJobs](#)
- [ListImageSetVersions](#)
- [ListTagsForResource](#)
- [SearchImageSets](#)
- [StartDICOMImportJob](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateImageSetMetadata](#)

# CopyImageSet

Copy an image set.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/sourceImageSetId/copyImageSet HTTP/1.1
Content-type: application/json
```

```
{
  "destinationImageSet": {
    "imageSetId": "string",
    "latestVersionId": "string"
  },
  "sourceImageSet": {
    "latestVersionId": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### sourceImageSetId

The source image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## destinationImageSet

The destination image set.

Type: [CopyDestinationImageSet](#) object

Required: No

## sourceImageSet

The source image set.

Type: [CopySourceImageSetInformation](#) object

Required: Yes

## Response Syntax

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

{
  "datastoreId": "string",
  "destinationImageSetProperties": {
    "createdAt": number,
    "imageSetArn": "string",
    "imageSetId": "string",
    "imageSetState": "string",
    "imageSetWorkflowStatus": "string",
    "latestVersionId": "string",
    "updatedAt": number
  },
  "sourceImageSetProperties": {
    "createdAt": number,
    "imageSetArn": "string",
    "imageSetId": "string",
    "imageSetState": "string",
    "imageSetWorkflowStatus": "string",
    "latestVersionId": "string",
    "updatedAt": number
  }
}
```

## Response Elements

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

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

### datastoreId

The data store identifier.

Type: String

Pattern: [0-9a-z]{32}

### destinationImageSetProperties

The properties of the destination image set.

Type: [CopyDestinationImageSetProperties](#) object

### sourceImageSetProperties

The properties of the source image set.

Type: [CopySourceImageSetProperties](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request caused a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# CreateDatastore

Create a data store.

## Request Syntax

```
POST /datastore HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "datastoreName": "string",
  "kmsKeyArn": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

A unique identifier for API idempotency.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [A-Za-z0-9.\_-]+

Required: Yes

### datastoreName

The data store name.

Type: String



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

Pattern: `[A-Za-z0-9._/#-]+`

Required: No

### kmsKeyArn

The Amazon Resource Name (ARN) assigned to the Key Management Service (KMS) key for accessing encrypted data.

Type: String

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

Pattern: `arn:aws[a-zA-Z-]{0,16}:kms:[a-z]{2}(-[a-z]{1,16}){1,3}-\d{1}:\d{12}:((key/[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12})|(alias/[a-zA-Z0-9:/_-]{1,256}))`

Required: No

### tags

The tags provided when creating a data store.

Type: String to string map

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

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

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

Required: No

## Response Syntax

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

{
  "datastoreId": "string",
  "datastoreStatus": "string"
}
```

```
}
```

## Response Elements

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

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

### datastoreId

The data store identifier.

Type: String

Pattern: [0-9a-z]{32}

### datastoreStatus

The data store status.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | DELETING | DELETED

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The request caused a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# DeleteDatastore

Delete a data store.

## Note

Before a data store can be deleted, you must first delete all image sets within it.

## Request Syntax

```
DELETE /datastore/datastoreId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "datastoreId": "string",
  "datastoreStatus": "string"
}
```

## Response Elements

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

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

### datastoreId

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

### datastoreStatus

The data store status.

Type: String

Valid Values: `CREATING` | `CREATE_FAILED` | `ACTIVE` | `DELETING` | `DELETED`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# DeleteImageSet

Delete an image set.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/deleteImageSet HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetId

The image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "datastoreId": "string",
  "imageSetId": "string",
  "imageSetState": "string",
```

```
"imageSetWorkflowStatus": "string"  
}
```

## Response Elements

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

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

### datastoreId

The data store identifier.

Type: String

Pattern: [0-9a-z]{32}

### imageSetId

The image set identifier.

Type: String

Pattern: [0-9a-z]{32}

### imageSetState

The image set state.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

### imageSetWorkflowStatus

The image set workflow status.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

## Errors

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



## **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## **InternalServerError**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

## **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

## **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

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

# GetDatastore

Get data store properties.

## Request Syntax

```
GET /datastore/datastoreId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "datastoreProperties": {
    "createdAt": number,
    "datastoreArn": "string",
    "datastoreId": "string",
    "datastoreName": "string",
    "datastoreStatus": "string",
    "kmsKeyArn": "string",
    "updatedAt": number
  }
}
```

## Response Elements

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

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

### [datastoreProperties](#)

The data store properties.

Type: [DatastoreProperties](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerError**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# GetDICOMImportJob

Get the import job properties to learn more about the job or job progress.

## Note

The `jobStatus` refers to the execution of the import job. Therefore, an import job can return a `jobStatus` as `COMPLETED` even if validation issues are discovered during the import process. If a `jobStatus` returns as `COMPLETED`, we still recommend you review the output manifests written to S3, as they provide details on the success or failure of individual P10 object imports.

## Request Syntax

```
GET /getDICOMImportJob/datastore/datastoreId/job/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### jobId

The import job identifier.

Length Constraints: Minimum length of 1. Maximum length of 32.

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

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "jobProperties": {
    "dataAccessRoleArn": "string",
    "datastoreId": "string",
    "endedAt": number,
    "inputS3Uri": "string",
    "jobId": "string",
    "jobName": "string",
    "jobStatus": "string",
    "message": "string",
    "outputS3Uri": "string",
    "submittedAt": number
  }
}
```

## Response Elements

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

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

### jobProperties

The properties of the import job.

Type: [DICOMImportJobProperties](#) object

## Errors

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

## AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

## InternalServerError

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

## ResourceNotFoundException

The request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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



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

# GetImageFrame

Get an image frame (pixel data) for an image set.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/getImageFrame HTTP/1.1
Content-type: application/json
```

```
{
  "imageFrameId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetId

The image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### imageFrameId

The image frame (pixel data) identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-Type: contentType

imageFrameBlob
```

## Response Elements

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

The response returns the following HTTP headers.

### [contentType](#)

The format in which the image frame information is returned to the customer. Default is `application/octet-stream`.

The response returns the following as the HTTP body.

### [imageFrameBlob](#)

The blob containing the aggregated image frame information.

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# GetImageSet

Get image set properties.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/getImageSet?version=versionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: [0-9a-z]{32}

Required: Yes

### imageSetId

The image set identifier.

Pattern: [0-9a-z]{32}

Required: Yes

### versionId

The image set version identifier.

Pattern: \d+

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "createdAt": number,
  "datastoreId": "string",
  "deletedAt": number,
  "imageSetArn": "string",
  "imageSetId": "string",
  "imageSetState": "string",
  "imageSetWorkflowStatus": "string",
  "message": "string",
  "updatedAt": number,
  "versionId": "string"
}
```

## Response Elements

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

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

### createdAt

The timestamp when image set properties were created.

Type: Timestamp

### datastoreId

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

### deletedAt

The timestamp when the image set properties were deleted.

Type: Timestamp

### imageSetArn

The Amazon Resource Name (ARN) assigned to the image set.

Type: String

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

### imageSetId

The image set identifier.

Type: String

Pattern: `[0-9a-z]{32}`

### imageSetState

The image set state.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

### imageSetWorkflowStatus

The image set workflow status.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

### message

The error message thrown if an image set action fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\w - : ]+`

### updatedAt

The timestamp when image set properties were updated.

Type: Timestamp

## versionId

The image set version identifier.

Type: String

Pattern: \d+

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerError**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.



HTTP Status Code: 400

## See Also

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

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

# GetImageSetMetadata

Get metadata attributes for an image set.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/getImageSetMetadata?version=versionId
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetId

The image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### versionId

The image set version identifier.

Pattern: `\d+`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-Type: *contentType*  
Content-Encoding: *contentEncoding*  
  
*imageSetMetadataBlob*

## Response Elements

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

The response returns the following HTTP headers.

### contentEncoding

The compression format in which image set metadata attributes are returned.

### contentType

The format in which the study metadata is returned to the customer. Default is text/plain.

The response returns the following as the HTTP body.

### imageSetMetadataBlob

The blob containing the aggregated metadata information for the image set.

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# ListDatastores

List data stores.

## Request Syntax

```
GET /datastore?  
datastoreStatus=datastoreStatus&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreStatus

The data store status.

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | DELETING | DELETED

### maxResults

Valid Range: Minimum value of 1. Maximum value of 50.

Valid Range: Minimum value of 1. Maximum value of 50.

### nextToken

The pagination token used to request the list of data stores on the next page.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: \p{ASCII}{0,8192}

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "datastoreSummaries": [
    {
      "createdAt": number,
      "datastoreArn": "string",
      "datastoreId": "string",
      "datastoreName": "string",
      "datastoreStatus": "string",
      "updatedAt": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### datastoreSummaries

The list of summaries of data stores.

Type: Array of [DatastoreSummary](#) objects

### nextToken

The pagination token used to retrieve the list of data stores on the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# ListDICOMImportJobs

List import jobs created for a specific data store.

## Request Syntax

```
GET /listDICOMImportJobs/datastore/datastoreId?  
jobStatus=jobStatus&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### jobStatus

The filters for listing import jobs based on status.

Valid Values: SUBMITTED | IN\_PROGRESS | COMPLETED | FAILED

### maxResults

The max results count. The upper bound is determined by load testing.

Valid Range: Minimum value of 1. Maximum value of 50.

### nextToken

The pagination token used to request the list of import jobs on the next page.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

## Request Body

The request does not have a request body.



## Response Syntax

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

{
  "jobSummaries": [
    {
      "dataAccessRoleArn": "string",
      "datastoreId": "string",
      "endedAt": number,
      "jobId": "string",
      "jobName": "string",
      "jobStatus": "string",
      "message": "string",
      "submittedAt": number
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### jobSummaries

A list of job summaries.

Type: Array of [DICOMImportJobSummary](#) objects

### nextToken

The pagination token used to retrieve the list of import jobs on the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# ListImageSetVersions

List image set versions.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/listImageSetVersions?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetId

The image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### maxResults

The max results count.

Valid Range: Minimum value of 1. Maximum value of 50.

### nextToken

The pagination token used to request the list of image set versions on the next page.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "imageSetPropertiesList": [
    {
      "createdAt": number,
      "deletedAt": number,
      "imageSetId": "string",
      "imageSetState": "string",
      "ImageSetWorkflowStatus": "string",
      "message": "string",
      "updatedAt": number,
      "versionId": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

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

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

### imageSetPropertiesList

Lists all properties associated with an image set.

Type: Array of [ImageSetProperties](#) objects

### nextToken

The pagination token used to retrieve the list of image set versions on the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: \p{ASCII}{0,8192}

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# ListTagsForResource

Lists all tags associated with a medical imaging resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The Amazon Resource Name (ARN) of the medical imaging resource to list tags for.

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

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

## Response Elements

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



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

## tags

A list of all tags associated with a medical imaging resource.

Type: String to string map

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

Key Pattern: (?!aws:)[a-zA-Z+ -=.\_:/]+

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

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# SearchImageSets

Search image sets based on defined input attributes.

## Note

SearchImageSets accepts a single search query parameter and returns a paginated response of all image sets that have the matching criteria. All date range queries must be input as (lowerBound, upperBound).

By default, SearchImageSets uses the updatedAt field for sorting in descending order from newest to oldest.

## Request Syntax

```
POST /datastore/datastoreId/searchImageSets?maxResults=maxResults&nextToken=nextToken
```

```
HTTP/1.1
```

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

```
{
  "filters": [
    {
      "operator": "string",
      "values": [
        { ... }
      ]
    }
  ],
  "sort": {
    "sortField": "string",
    "sortOrder": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The identifier of the data store where the image sets reside.

Pattern: `[0-9a-z]{32}`

Required: Yes

### [maxResults](#)

The maximum number of results that can be returned in a search.

Valid Range: Minimum value of 1. Maximum value of 50.

### [nextToken](#)

The token used for pagination of results returned in the response. Use the token returned from the previous request to continue results where the previous request ended.

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

## Request Body

The request accepts the following data in JSON format.

### [filters](#)

The filters for the search criteria.

Type: Array of [SearchFilter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

### [sort](#)

The sort input for search criteria.

Type: [Sort](#) object

Required: No

## Response Syntax

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

```

{
  "imageSetsMetadataSummaries": [
    {
      "createdAt": number,
      "DICOMTags": {
        "DICOMAccessionNumber": "string",
        "DICOMNumberOfStudyRelatedInstances": number,
        "DICOMNumberOfStudyRelatedSeries": number,
        "DICOMPatientBirthDate": "string",
        "DICOMPatientId": "string",
        "DICOMPatientName": "string",
        "DICOMPatientSex": "string",
        "DICOMSeriesBodyPart": "string",
        "DICOMSeriesInstanceUID": "string",
        "DICOMSeriesModality": "string",
        "DICOMSeriesNumber": number,
        "DICOMStudyDate": "string",
        "DICOMStudyDescription": "string",
        "DICOMStudyId": "string",
        "DICOMStudyInstanceUID": "string",
        "DICOMStudyTime": "string"
      },
      "imageSetId": "string",
      "updatedAt": number,
      "version": number
    }
  ],
  "nextToken": "string",
  "sort": {
    "sortField": "string",
    "sortOrder": "string"
  }
}

```

## Response Elements

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

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

### [imageSetsMetadataSummaries](#)

The model containing the image set results.

Type: Array of [ImageSetsMetadataSummary](#) objects

### [nextToken](#)

The token for pagination results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8192.

Pattern: `\p{ASCII}{0,8192}`

### [sort](#)

The sort order for image set search results.

Type: [Sort](#) object

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# StartDICOMImportJob

Start importing bulk data into an ACTIVE data store. The import job imports DICOM P10 files found in the S3 prefix specified by the `inputS3Uri` parameter. The import job stores processing results in the file specified by the `outputS3Uri` parameter.

## Request Syntax

```
POST /startDICOMImportJob/datastore/datastoreId HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "dataAccessRoleArn": "string",
  "inputOwnerAccountId": "string",
  "inputS3Uri": "string",
  "jobName": "string",
  "outputS3Uri": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

A unique identifier for API idempotency.

Type: String



Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9._-]+`

Required: Yes

### [dataAccessRoleArn](#)

The Amazon Resource Name (ARN) of the IAM role that grants permission to access medical imaging resources.

Type: String

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

Pattern: `arn:aws(-[^\:]+)?:iam::[0-9]{12}:role/.+`

Required: Yes

### [inputOwnerAccountId](#)

The account ID of the source S3 bucket owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d+`

Required: No

### [inputS3Uri](#)

The input prefix path for the S3 bucket that contains the DICOM files to be imported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `s3://[a-z0-9][\.\-a-z0-9]{1,61}[a-z0-9](/.*)?`

Required: Yes

### [jobName](#)

The import job name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [A-Za-z0-9.\_/#- ]+

Required: No

### outputS3Uri

The output prefix of the S3 bucket to upload the results of the DICOM import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: s3://[a-z0-9][\.\-a-z0-9]{1,61}[a-z0-9](/.\*)?

Required: Yes

## Response Syntax

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

{
  "datastoreId": "string",
  "jobId": "string",
  "jobStatus": "string",
  "submittedAt": number
}
```

## Response Elements

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

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

### datastoreId

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

### jobId

The import job identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

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

### jobStatus

The import job status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | COMPLETED | FAILED

### submittedAt

The timestamp when the import job was submitted.

Type: Timestamp

## Errors

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request caused a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

### **ValidationException**

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## **See Also**

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

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

# TagResource

Adds a user-specified key and value tag to a medical imaging resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

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

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the medical imaging resource that tags are being added to.

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The user-specified key and value tag pairs added to a medical imaging resource.

Type: String to string map

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

Key Pattern: (?!aws:)[a-zA-Z+-.\_: / ]+

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

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerError

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# UntagResource

Removes tags from a medical imaging resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the medical imaging resource that tags are being removed from.

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: Yes

### tagKeys

The keys for the tags to be removed from the medical imaging resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

Pattern: `(?!aws:)[a-zA-Z+ -= . _ : / ] +`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```



## Response Elements

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

## Errors

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

### AccessDeniedException

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### ResourceNotFoundException

The request references a resource which does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to throttling.

HTTP Status Code: 429

### ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

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

# UpdateImageSetMetadata

Update image set metadata attributes.

## Request Syntax

```
POST /datastore/datastoreId/imageSet/imageSetId/updateImageSetMetadata?  
latestVersion=latestVersionId HTTP/1.1  
Content-type: application/json  
  
{  
  "DICOMUpdates": {  
    "removableAttributes": blob,  
    "updatableAttributes": blob  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### datastoreId

The data store identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetId

The image set identifier.

Pattern: `[0-9a-z]{32}`

Required: Yes

### latestVersionId

The latest image set version identifier.

Pattern: `\d+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### DICOMUpdates

The object containing `removableAttributes` and `updatableAttributes`.

Type: [DICOMUpdates](#) object

Required: No

## Response Syntax

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

{
  "createdAt": number,
  "datastoreId": "string",
  "imageSetId": "string",
  "imageSetState": "string",
  "imageSetWorkflowStatus": "string",
  "latestVersionId": "string",
  "message": "string",
  "updatedAt": number
}
```

## Response Elements

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

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

### createdAt

The timestamp when image set metadata was created.

Type: Timestamp

### datastoreId

The data store identifier.

Type: String

Pattern: [0-9a-z]{32}

### imageSetId

The image set identifier.

Type: String

Pattern: [0-9a-z]{32}

### imageSetState

The image set state.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

### imageSetWorkflowStatus

The image set workflow status.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

### latestVersionId

The latest image set version identifier.

Type: String

Pattern: \d+

### message

The error message thrown if an update image set metadata action fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\w - : ]+`

### **updatedAt**

The timestamp when image set metadata was updated.

Type: Timestamp

## **Errors**

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

### **AccessDeniedException**

The user does not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

Updating or deleting a resource can cause an inconsistent state.

HTTP Status Code: 409

### **InternalServerErrorException**

An unexpected error occurred during processing of the request.

HTTP Status Code: 500

### **ResourceNotFoundException**

The request references a resource which does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

The request caused a service quota to be exceeded.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to throttling.

HTTP Status Code: 429

## ValidationException

The input fails to satisfy the constraints set by the service.

HTTP Status Code: 400

## See Also

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

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

# Data Types

The AWS Health Imaging API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [CopyDestinationImageSet](#)
- [CopyDestinationImageSetProperties](#)
- [CopyImageSetInformation](#)
- [CopySourceImageSetInformation](#)
- [CopySourceImageSetProperties](#)
- [DatastoreProperties](#)
- [DatastoreSummary](#)
- [DICOMImportJobProperties](#)
- [DICOMImportJobSummary](#)
- [DICOMStudyDateAndTime](#)
- [DICOMTags](#)
- [DICOMUpdates](#)
- [ImageFrameInformation](#)
- [ImageSetProperties](#)
- [ImageSetsMetadataSummary](#)
- [MetadataUpdates](#)
- [SearchByAttributeValue](#)
- [SearchCriteria](#)
- [SearchFilter](#)
- [Sort](#)





# CopyDestinationImageSet

Copy the destination image set.

## Contents

### imageSetId

The image set identifier for the destination image set.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### latestVersionId

The latest version identifier for the destination image set.

Type: String

Pattern: `\d+`

Required: Yes

## See Also

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

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

# CopyDestinationImageSetProperties

Copy the image set properties of the destination image set.

## Contents

### imageSetId

The image set identifier of the copied image set properties.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### latestVersionId

The latest version identifier for the destination image set properties.

Type: String

Pattern: `\d+`

Required: Yes

### createdAt

The timestamp when the destination image set properties were created.

Type: Timestamp

Required: No

### imageSetArn

The Amazon Resource Name (ARN) assigned to the destination image set.

Type: String

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: No

## imageSetState

The image set state of the destination image set properties.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

Required: No

## imageSetWorkflowStatus

The image set workflow status of the destination image set properties.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

Required: No

## updatedAt

The timestamp when the destination image set properties were last updated.

Type: Timestamp

Required: No

## See Also

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

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

# CopyImageSetInformation

Copy image set information.

## Contents

### sourceImageSet

The source image set.

Type: [CopySourceImageSetInformation](#) object

Required: Yes

### destinationImageSet

The destination image set.

Type: [CopyDestinationImageSet](#) object

Required: No

## See Also

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

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

# CopySourceImageSetInformation

Copy source image set information.

## Contents

### latestVersionId

The latest version identifier for the source image set.

Type: String

Pattern: \d+

Required: Yes

## See Also

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

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

# CopySourceImageSetProperties

Copy source image set properties.

## Contents

### imageSetId

The image set identifier for the copied source image set.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### latestVersionId

The latest version identifier for the copied source image set.

Type: String

Pattern: `\d+`

Required: Yes

### createdAt

The timestamp when the source image set properties were created.

Type: Timestamp

Required: No

### imageSetArn

The Amazon Resource Name (ARN) assigned to the source image set.

Type: String

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: No

## imageSetState

The image set state of the copied source image set.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

Required: No

## imageSetWorkflowStatus

The workflow status of the copied source image set.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

Required: No

## updatedAt

The timestamp when the source image set properties were updated.

Type: Timestamp

Required: No

## See Also

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

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



# DatastoreProperties

The properties associated with the data store.

## Contents

### **datastoreId**

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### **datastoreName**

The data store name.

Type: String

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

Pattern: `[A-Za-z0-9._/#- ]+`

Required: Yes

### **datastoreStatus**

The data store status.

Type: String

Valid Values: `CREATING | CREATE_FAILED | ACTIVE | DELETING | DELETED`

Required: Yes

### **createdAt**

The timestamp when the data store was created.

Type: Timestamp

Required: No

## datastoreArn

The Amazon Resource Name (ARN) for the data store.

Type: String

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: No

## kmsKeyArn

The Amazon Resource Name (ARN) assigned to the Key Management Service (KMS) key for accessing encrypted data.

Type: String

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

Pattern: `arn:aws[a-zA-Z-]{0,16}:kms:[a-z]{2}(-[a-z]{1,16}){1,3}-\d{1}:\d{12}:((key/[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12})|(alias/[a-zA-Z0-9:/_-]{1,256}))`

Required: No

## updatedAt

The timestamp when the data store was last updated.

Type: Timestamp

Required: No

## See Also

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

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



# DatastoreSummary

List of summaries of data stores.

## Contents

### **datastoreId**

The data store identifier.

Type: String

Pattern: [0-9a-z]{32}

Required: Yes

### **datastoreName**

The data store name.

Type: String

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

Pattern: [A-Za-z0-9.\_/#- ]+

Required: Yes

### **datastoreStatus**

The data store status.

Type: String

Valid Values: CREATING | CREATE\_FAILED | ACTIVE | DELETING | DELETED

Required: Yes

### **createdAt**

The timestamp when the data store was created.

Type: Timestamp

Required: No

## datastoreArn

The Amazon Resource Name (ARN) for the data store.

Type: String

Pattern: `arn:aws((-us-gov)|(-iso)|(-iso-b)|(-cn))?:medical-imaging:[a-z0-9-]+:[0-9]{12}:datastore/[0-9a-z]{32}(/imageset/[0-9a-z]{32})?`

Required: No

## updatedAt

The timestamp when the data store was last updated.

Type: Timestamp

Required: No

## See Also

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

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

# DICOMImportJobProperties

Properties of the import job.

## Contents

### **dataAccessRoleArn**

The Amazon Resource Name (ARN) that grants permissions to access medical imaging resources.

Type: String

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

Pattern: `arn:aws(-[^:]+)?:iam::[0-9]{12}:role/.+`

Required: Yes

### **datastoreId**

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### **inputS3Uri**

The input prefix path for the S3 bucket that contains the DICOM P10 files to be imported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `s3://[a-z0-9][\.\-a-z0-9]{1,61}[a-z0-9](/.*)?`

Required: Yes

### **jobId**

The import job identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

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

Required: Yes

### **jobName**

The import job name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9._/#-]+`

Required: Yes

### **jobStatus**

The filters for listing import jobs based on status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | COMPLETED | FAILED

Required: Yes

### **outputS3Uri**

The output prefix of the S3 bucket to upload the results of the DICOM import job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `s3://[a-z0-9][\.\-a-z0-9]{1,61}[a-z0-9](/.*)?`

Required: Yes

### **endedAt**

The timestamp for when the import job was ended.

Type: Timestamp

Required: No

## message

The error message thrown if an import job fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\w - : ]+`

Required: No

## submittedAt

The timestamp for when the import job was submitted.

Type: Timestamp

Required: No

## See Also

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

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



# DICOMImportJobSummary

Summary of import job.

## Contents

### **datastoreId**

The data store identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### **jobId**

The import job identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

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

Required: Yes

### **jobName**

The import job name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9._/#- ]+`

Required: Yes

### **jobStatus**

The filters for listing import jobs based on status.

Type: String

Valid Values: SUBMITTED | IN\_PROGRESS | COMPLETED | FAILED

Required: Yes

### **dataAccessRoleArn**

The Amazon Resource Name (ARN) that grants permissions to access medical imaging resources.

Type: String

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

Pattern: `arn:aws(-[^\:]+)?:iam::[0-9]{12}:role/.+`

Required: No

### **endedAt**

The timestamp when an import job ended.

Type: Timestamp

Required: No

### **message**

The error message thrown if an import job fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\w - : ]+`

Required: No

### **submittedAt**

The timestamp when an import job was submitted.

Type: Timestamp

Required: No

## See Also

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

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

# DICOMStudyDateAndTime

The aggregated structure to store DICOM study date and study time for search capabilities.

## Contents

### DICOMStudyDate

The DICOM study date provided in yyMMdd format.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 18.

Required: Yes

### DICOMStudyTime

The DICOM study time provided in HHmmss.FFFFFFF format.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 28.

Required: No

## See Also

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

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

# DICOMTags

The DICOM attributes returned as a part of a response. Each image set has these properties as part of a search result.

## Contents

### DICOMAccessionNumber

The accession number for the DICOM study.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### DICOMNumberOfStudyRelatedInstances

The total number of instances in the DICOM study.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

### DICOMNumberOfStudyRelatedSeries

The total number of series in the DICOM study.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10000.

Required: No

### DICOMPatientBirthDate

The patient birth date.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 18.

Required: No

### **DICOMPatientId**

The unique identifier for a patient in a DICOM Study.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Required: No

### **DICOMPatientName**

The patient name.

Type: String

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

Required: No

### **DICOMPatientSex**

The patient sex.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### **DICOMSeriesBodyPart**

The DICOM provided identifier for the series Body Part Examined.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Required: No

### **DICOMSeriesInstanceUID**

The DICOM provided identifier for the Series Instance UID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `(?:[1-9][0-9]*|0)(\.(?:[1-9][0-9]*|0))*`

Required: No

### **DICOMSeriesModality**

The DICOM provided identifier for the series Modality.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### **DICOMSeriesNumber**

The DICOM provided identifier for the Series Number.

Type: Integer

Valid Range: Minimum value of -2147483648. Maximum value of 2147483647.

Required: No

### **DICOMStudyDate**

The study date.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 18.

Required: No

### **DICOMStudyDescription**

The DICOM provided Study Description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Required: No

## DICOMStudyId

The DICOM provided identifier for the Study ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

## DICOMStudyInstanceUID

The DICOM provided identifier for the Study Instance UID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `(?:[1-9][0-9]*|\0)(\.(?:[1-9][0-9]*|\0))*`

Required: No

## DICOMStudyTime

The study time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 28.

Required: No

## See Also

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

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



# DICOMUpdates

The object containing `removableAttributes` and `updateableAttributes`.

## Contents

### `removableAttributes`

The DICOM tags to be removed from `ImageSetMetadata`.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 10000.

Required: No

### `updateableAttributes`

The DICOM tags that need to be updated in `ImageSetMetadata`.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 10000.

Required: No

## See Also

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

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

# ImageFrameInformation

Information about the image frame (pixel data) identifier.

## Contents

### imageFrameId

The image frame (pixel data) identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

## See Also

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

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

# ImageSetProperties

The image set properties.

## Contents

### imageSetId

The image set identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### imageSetState

The image set state.

Type: String

Valid Values: ACTIVE | LOCKED | DELETED

Required: Yes

### versionId

The image set version identifier.

Type: String

Pattern: `\d+`

Required: Yes

### createdAt

The timestamp when the image set properties were created.

Type: Timestamp

Required: No

## **deletedAt**

The timestamp when the image set properties were deleted.

Type: Timestamp

Required: No

## **ImageSetWorkflowStatus**

The image set workflow status.

Type: String

Valid Values: CREATED | COPIED | COPYING | COPYING\_WITH\_READ\_ONLY\_ACCESS | COPY\_FAILED | UPDATING | UPDATED | UPDATE\_FAILED | DELETING | DELETED

Required: No

## **message**

The error message thrown if an image set action fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\w - :]+`

Required: No

## **updatedAt**

The timestamp when the image set properties were updated.

Type: Timestamp

Required: No

## **See Also**

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

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

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

# ImageSetsMetadataSummary

Summary of the image set metadata.

## Contents

### imageSetId

The image set identifier.

Type: String

Pattern: `[0-9a-z]{32}`

Required: Yes

### createdAt

The time an image set is created. Sample creation date is provided in `1985-04-12T23:20:50.52Z` format.

Type: Timestamp

Required: No

### DICOMTags

The DICOM tags associated with the image set.

Type: [DICOMTags](#) object

Required: No

### updatedAt

The time an image set was last updated.

Type: Timestamp

Required: No

### version

The image set version.

Type: Integer

Required: No

## See Also

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

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

# MetadataUpdates

Contains DICOMUpdates.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## DICOMUpdates

The object containing `removableAttributes` and `updatableAttributes`.

Type: [DICOMUpdates](#) object

Required: No

## See Also

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

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



# SearchByAttributeValue

The search input attribute value.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### **createdAt**

The created at time of the image set provided for search.

Type: Timestamp

Required: No

### **DICOMAccessionNumber**

The DICOM accession number for search.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### **DICOMPatientId**

The patient ID input for search.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Required: No

### **DICOMSeriesInstanceUID**

The Series Instance UID input for search.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `(?:[1-9][0-9]*|0)(\.(?:[1-9][0-9]*|0))*`

Required: No

### **DICOMStudyDateAndTime**

The aggregated structure containing DICOM study date and study time for search.

Type: [DICOMStudyDateAndTime](#) object

Required: No

### **DICOMStudyId**

The DICOM study ID for search.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16.

Required: No

### **DICOMStudyInstanceUID**

The DICOM study instance UID for search.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 64.

Pattern: `(?:[1-9][0-9]*|0)(\.(?:[1-9][0-9]*|0))*`

Required: No

### **updatedAt**

The timestamp input for search.

Type: Timestamp

Required: No

## See Also

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

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

# SearchCriteria

The search criteria.

## Contents

### filters

The filters for the search criteria.

Type: Array of [SearchFilter](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: No

### sort

The sort input for search criteria.

Type: [Sort](#) object

Required: No

## See Also

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

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

# SearchFilter

The search filter.

## Contents

### operator

The search filter operator for `imageSetDateTime`.

Type: String

Valid Values: EQUAL | BETWEEN

Required: Yes

### values

The search filter values.

Type: Array of [SearchByAttributeValue](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

## See Also

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

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

# Sort

Sort search results.

## Contents

### sortField

The sort field for search criteria.

Type: String

Valid Values: `updatedAt` | `createdAt` | `DICOMStudyDateAndTime`

Required: Yes

### sortOrder

The sort order for search criteria.

Type: String

Valid Values: `ASC` | `DESC`

Required: Yes

## See Also

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

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.



Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

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

HTTP Status Code: 403

## **UnknownOperationException**

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

HTTP Status Code: 404

## **ValidationError**

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

HTTP Status Code: 400