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Welcome

Amazon WorkMail is a secure, managed business email and calendaring service with support for existing desktop and mobile email clients. You can access your email, contacts, and calendars using Microsoft Outlook, your browser, or their native iOS and Android email applications. You can integrate Amazon WorkMail with your existing corporate directory and control both the keys that encrypt your data and the location in which your data is stored.

The Amazon WorkMail API is designed for the following scenarios:

- Listing and describing organizations
- Managing users
- Managing groups
- Managing resources

All Amazon WorkMail API actions are Amazon-authenticated and certificate-signed. They not only require the use of the AWS SDK, but also allow for the exclusive use of IAM users and roles to help facilitate access, trust, and permission policies. By creating a role and allowing an IAM user to access the Amazon WorkMail site, the IAM user gains full administrative visibility into the entire Amazon WorkMail organization (or as set in the IAM policy). This includes, but is not limited to, the ability to create, update, and delete users, groups, and resources. This allows developers to perform the scenarios listed above, as well as give users the ability to grant access on a selective basis using the IAM model.

This document was last published on February 7, 2018.
Actions

The following actions are supported:

- AssociateDelegateToResource (p. 3)
- AssociateMemberToGroup (p. 5)
- CreateAlias (p. 8)
- CreateGroup (p. 11)
- CreateResource (p. 14)
- CreateUser (p. 17)
- DeleteAlias (p. 20)
- DeleteGroup (p. 22)
- DeleteResource (p. 24)
- DeleteUser (p. 26)
- DeregisterFromWorkMail (p. 28)
- DescribeGroup (p. 30)
- DescribeOrganization (p. 33)
- DescribeResource (p. 36)
- DescribeUser (p. 39)
- DisassociateDelegateFromResource (p. 42)
- DisassociateMemberFromGroup (p. 44)
- ListAliases (p. 47)
- ListGroupMembers (p. 50)
- ListGroups (p. 53)
- ListOrganizations (p. 56)
- ListResourceDelegates (p. 58)
- ListResources (p. 61)
- ListUsers (p. 64)
- RegisterToWorkMail (p. 67)
- ResetPassword (p. 70)
- UpdatePrimaryEmailAddress (p. 73)
- UpdateResource (p. 76)
AssociateDelegateToResource

Add a member to the resource's set of delegates.

Request Syntax

```json
{
    "EntityId": "string",
    "OrganizationId": "string",
    "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**EntityId (p. 3)**

The member (user or group) to associate to the resource.

Type: String


Required: Yes

**OrganizationId (p. 3)**

The organization under which the resource exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**ResourceId (p. 3)**

The resource for which members are associated.

Type: String

Pattern: ^r-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).
EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
AssociateMemberToGroup

Adds a member to the group's set.

**Request Syntax**

```json
{
    "GroupId": "string",
    "MemberId": "string",
    "OrganizationId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**GroupId (p. 5)**

The group for which the member is associated.

Type: String


Required: Yes

**MemberId (p. 5)**

The member to associate to the group.

Type: String


Required: Yes

**OrganizationId (p. 5)**

The organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**Response Elements**

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

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 94).
**DirectoryServiceAuthenticationFailedException**

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

**DirectoryUnavailableException**

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

**UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
• AWS SDK for Ruby V2
CreateAlias

Adds an alias to the set of a given member of Amazon WorkMail.

Request Syntax

```json
{
   "Alias": "string",
   "EntityId": "string",
   "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**Alias (p. 8)**

The alias to add to the user.

- Type: String
- Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`
- Required: Yes

**EntityId (p. 8)**

The alias is added to this Amazon WorkMail entity.

- Type: String
- Required: Yes

**OrganizationId (p. 8)**

The organization under which the member exists.

- Type: String
- Pattern: `^[0-9a-f]{32}$`
- Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).
EmailAddressInUseException

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

MailDomainNotFoundException

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

MailDomainStateException

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
CreateGroup

Creates a group that can be used in Amazon WorkMail by calling the RegisterToWorkMail operation.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**Name (p. 11)**

The name of the group.

Type: String

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

Pattern: \[\u0020-\u00FF]+

Required: Yes

**OrganizationId (p. 11)**

The organization under which the group is to be created.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Syntax

```
{
    "GroupId": "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.

**GroupId (p. 11)**

The ID of the group.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

DirectoryServiceAuthenticationFailedException

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

DirectoryUnavailableException

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

NameAvailabilityException

The entity (user, group, or user) name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

ReservedNameException

This entity name is not allowed in Amazon WorkMail.

HTTP Status Code: 400

UnsupportedOperationException

You can't perform a write operation against a read-only directory.

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
See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
CreateResource

Creates a new Amazon WorkMail resource. The available types are equipment and room.

Request Syntax

```
{
    "Name": "string",
    "OrganizationId": "string",
    "Type": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**Name (p. 14)**

The name of the created resource.

Type: String


Pattern: [\w\-]+(@[a-zA-Z0-9\-]+\.[a-zA-Z0-9\-]+\.[a-zA-Z0-9]+\.[a-zA-Z0-9]+)?

Required: Yes

**OrganizationId (p. 14)**

The identifier associated with the organization for which the resource is created.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**Type (p. 14)**

The type of the created resource.

Type: String

Valid Values: ROOM | EQUIPMENT

Required: Yes

Response Syntax

```
{
    "ResourceId": "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.

ResourceId (p. 14)

The identifier of the created resource.

Type: String

Pattern: ^r-[0-9a-f]{32}$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

DirectoryServiceAuthenticationFailedException

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

DirectoryUnavailableException

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

NameAvailabilityException

The entity (user, group, or user) name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

ReservedNameException

This entity name is not allowed in Amazon WorkMail.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
CreateUser

Creates a user who can be used in Amazon WorkMail by calling the RegisterToWorkMail operation.

Request Syntax

```
{
   "DisplayName": "string",
   "Name": "string",
   "OrganizationId": "string",
   "Password": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**DisplayName (p. 17)**

The display name for the user to be created.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

**Name (p. 17)**

The name for the user to be created.

Type: String

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

Pattern: [\w.-]+(@[a-zA-Z0-9.-]+\.[a-zA-Z0-9-]{2,})?

Required: Yes

**OrganizationId (p. 17)**

The identifier of the organization for which the user is created.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**Password (p. 17)**

The password for the user to be created.

Type: String

Length Constraints: Maximum length of 256.

Pattern: [\u0020-\u00FF]+
Required: Yes

Response Syntax

```json
{
    "UserId": "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.

**UserId (p. 18)**

The information regarding the newly created user.

  - Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**DirectoryServiceAuthenticationFailedException**

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

  - HTTP Status Code: 400

**DirectoryUnavailableException**

The directory that you are trying to perform operations on isn't available.

  - HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

  - HTTP Status Code: 400

**InvalidPasswordException**

The supplied password doesn't match the minimum security constraints, such as length or use of special characters.

  - HTTP Status Code: 400

**NameAvailabilityException**

The entity (user, group, or user) name isn't unique in Amazon WorkMail.

  - HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.
HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

**ReservedNameException**

This entity name is not allowed in Amazon WorkMail.

HTTP Status Code: 400

**UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

---

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteAlias

Remove the alias from a set of aliases for a given user.

Request Syntax

```json
{
   "Alias": "string",
   "EntityId": "string",
   "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**Alias (p. 20)**

The aliases to be removed from the user's set of aliases. Duplicate entries in the list are collapsed into single entries (the list is transformed into a set).

Type: String


Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

Required: Yes

**EntityId (p. 20)**

The identifier for the Amazon WorkMail entity to have the aliases removed.

Type: String


Required: Yes

**OrganizationId (p. 20)**

The identifier for the organization under which the user exists.

Type: String

Pattern: `^[0-9a-f]{32}$`

Required: Yes

Response Elements

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

For information about the errors that are common to all actions, see Common Errors (p. 94).

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteGroup

Deletes a group from Amazon WorkMail.

Request Syntax

```json
{
  "GroupId": "string",
  "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**GroupId (p. 22)**

The identifier of the group to be deleted.

Type: String


Required: Yes

**OrganizationId (p. 22)**

The organization that contains the group.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**DirectoryServiceAuthenticationFailedException**

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

**DirectoryUnavailableException**

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

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EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

UnsupportedOperationException

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteResource

Deletes the specified resource.

Request Syntax

```
{
   "OrganizationId": "string",
   "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

OrganizationId (p. 24)

The identifier associated with the organization for which the resource is deleted.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

ResourceId (p. 24)

The identifier of the resource to be deleted.

Type: String

Pattern: ^r-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.
HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeleteUser

Deletes a user from Amazon WorkMail and all subsequent systems. The action can't be undone. The mailbox is kept as-is for a minimum of 30 days, without any means to restore it.

Request Syntax

```json
{
    "OrganizationId": "string",
    "UserId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

OrganizationId (p. 26)

The organization that contains the user.

Type: String

Pattern: ^m-\[0-9a-f\]{32}$

Required: Yes

UserId (p. 26)

The identifier of the user to be deleted.

Type: String


Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

DirectoryServiceAuthenticationFailedException

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

DirectoryUnavailableException

The directory that you are trying to perform operations on isn't available.
HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

**UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DeregisterFromWorkMail

Mark a user, group, or resource as no longer used in Amazon WorkMail. This action disassociates the mailbox and schedules it for clean-up. Amazon WorkMail keeps mailboxes for 30 days before they are permanently removed. The functionality in the console is Disable.

Request Syntax

```
{
  "EntityId": "string",
  "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**EntityId (p. 28)**

The identifier for the entity to be updated.

Type: String


Required: Yes

**OrganizationId (p. 28)**

The identifier for the organization under which the Amazon WorkMail entity exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.
HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeGroup

Returns the data available for the group.

Request Syntax

```
{
    "GroupId": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**GroupId (p. 30)**

The identifier for the group to be described.

Type: String


Required: Yes

**OrganizationId (p. 30)**

The identifier for the organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Syntax

```
{
    "DisabledDate": number,
    "Email": "string",
    "EnabledDate": number,
    "GroupId": "string",
    "Name": "string",
    "State": "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.
DisabledDate (p. 30)

The date and time when a user was deregistered from Amazon WorkMail, in UNIX epoch time format.

Type: Timestamp

Email (p. 30)

The email of the described group.

Type: String


Pattern: \[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

EnabledDate (p. 30)

The date and time when a user was registered to Amazon WorkMail, in UNIX epoch time format.

Type: Timestamp

GroupId (p. 30)

The identifier of the described group.

Type: String


Name (p. 30)

The name of the described group.

Type: String

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

Pattern: \[\u0020-\u00FF]+

State (p. 30)

The state of the user: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to Amazon WorkMail).

Type: String

Valid Values: ENABLED | DISABLED | DELETED

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400
**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeOrganization

Provides more information regarding a given organization based on its identifier.

Request Syntax

```json
{
  "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**OrganizationId (p. 33)**

The identifier for the organization to be described.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Syntax

```json
{
  "Alias": "string",
  "CompletedDate": number,
  "DefaultMailDomain": "string",
  "DirectoryId": "string",
  "DirectoryType": "string",
  "ErrorMessage": "string",
  "OrganizationId": "string",
  "State": "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.

**Alias (p. 33)**

The alias for an organization.

Type: String


Pattern: ^(?!d-)((\da-\z\A-\z)+([-]*\da-z\A-z\A-z])*$
**CompletedDate (p. 33)**

The date at which the organization became usable in the Amazon WorkMail context, in UNIX epoch time format.

Type: Timestamp

**DefaultMailDomain (p. 33)**

The default mail domain associated with the organization.

Type: String

Length Constraints: Maximum length of 256.

**DirectoryId (p. 33)**

The identifier for the directory associated with an Amazon WorkMail organization.

Type: String

Length Constraints: Maximum length of 256.

**DirectoryType (p. 33)**

The type of directory associated with the Amazon WorkMail organization.

Type: String

Length Constraints: Maximum length of 256.

**ErrorMessage (p. 33)**

The (optional) error message indicating if unexpected behavior was encountered with regards to the organization.

Type: String

Length Constraints: Maximum length of 256.

**OrganizationId (p. 33)**

The identifier of an organization.

Type: String

Pattern: ^m-[0-9a-f]{32}$

**State (p. 33)**

The state of an organization.

Type: String

Length Constraints: Maximum length of 256.

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 94).

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400
OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeResource

Returns the data available for the resource.

**Request Syntax**

```json
{
   "OrganizationId": "string",
   "ResourceId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**OrganizationId (p. 36)**

The identifier associated with the organization for which the resource is described.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**ResourceId (p. 36)**

The identifier of the resource to be described.

Type: String

Pattern: ^r-[0-9a-f]{32}$

Required: Yes

**Response Syntax**

```json
{
   "BookingOptions": {
      "AutoAcceptRequests": boolean,
      "AutoDeclineConflictingRequests": boolean,
      "AutoDeclineRecurringRequests": boolean
   },
   "DisabledDate": number,
   "Email": "string",
   "EnabledDate": number,
   "Name": "string",
   "ResourceId": "string",
   "State": "string",
   "Type": "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.

**BookingOptions (p. 36)**

The booking options for the described resource.

Type: BookingOptions (p. 80) object

**DisabledDate (p. 36)**

The date and time when a resource was registered from Amazon WorkMail, in UNIX epoch time format.

Type: Timestamp

**Email (p. 36)**

The email of the described resource.

Type: String


Pattern: \[a-zA-Z0-9-._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\

**EnabledDate (p. 36)**

The date and time when a resource was registered to Amazon WorkMail, in UNIX epoch time format.

Type: Timestamp

**Name (p. 36)**

The name of the described resource.

Type: String


Pattern: \[\w\-\.]\+\@[a-zA-Z0-9-]\-\]+\.[a-zA-Z0-9-]{2,}\

**ResourceId (p. 36)**

The identifier of the described resource.

Type: String

Pattern: ^r-[0-9a-f]{32}$

**State (p. 36)**

The state of the resource: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to Amazon WorkMail).

Type: String

Valid Values: ENABLED | DISABLED | DELETED

**Type (p. 36)**

The type of the described resource.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DescribeUser

Provides information regarding the user.

Request Syntax

```json
{
    "OrganizationId": "string",
    "UserId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**OrganizationId (p. 39)**

The identifier for the organization under which the user exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**UserId (p. 39)**

The identifier for the user to be described.

Type: String


Required: Yes

Response Syntax

```json
{
    "DisabledDate": number,
    "DisplayName": "string",
    "Email": "string",
    "EnabledDate": number,
    "Name": "string",
    "State": "string",
    "UserId": "string",
    "UserRole": "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.
DisabledDate (p. 39)

The date and time at which the user was disabled for Amazon WorkMail usage, in UNIX epoch time format.

Type: Timestamp

DisplayName (p. 39)

The display name of the user.

Type: String

Length Constraints: Maximum length of 256.

Email (p. 39)

The email of the user.

Type: String


Pattern: [a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+@[a-zA-Z]{2,}

EnabledDate (p. 39)

The date and time at which the user was enabled for Amazon WorkMail usage, in UNIX epoch time format.

Type: Timestamp

Name (p. 39)

The name for the user.

Type: String

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

Pattern: [\w\-\.]+@[\w\-\]+[.]\[a-zA-Z\]{2,}\?

State (p. 39)

The state of a user: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to Amazon WorkMail).

Type: String

Valid Values: ENABLED | DISABLED | DELETED

UserId (p. 39)

The identifier for the described user.

Type: String


UserRole (p. 39)

In certain cases other entities are modeled as users. If interoperability is enabled, resources are imported into Amazon WorkMail as users. Because different Amazon WorkMail organizations rely on different directory types, administrators can distinguish between a user that is not registered to Amazon WorkMail (is disabled and has a user role) and the administrative users of the directory. The values are USER, RESOURCE, and SYSTEM_USER.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DisassociateDelegateFromResource

Removes a member from the resource's set of delegates.

Request Syntax

```
{
  "EntityId": "string",
  "OrganizationId": "string",
  "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**EntityId (p. 42)**

The identifier for the member (user, group) to be removed from the resource's delegates.

Type: String


Required: Yes

**OrganizationId (p. 42)**

The identifier for the organization under which the resource exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**ResourceIds (p. 42)**

The identifier of the resource from which delegates' set members are removed.

Type: String

Pattern: ^r-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).
EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
DisassociateMemberFromGroup

Removes a member from a group.

Request Syntax

```json
{
    "GroupId": "string",
    "MemberId": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**GroupId (p. 44)**

The identifier for the group from which members are removed.

Type: String


Required: Yes

**MemberId (p. 44)**

The identifier for the member to be removed to the group.

Type: String


Required: Yes

**OrganizationId (p. 44)**

The identifier for the organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
See Also

- AWS SDK for Ruby V2
ListAliases

Creates a paginated call to list the aliases associated with a given entity.

Request Syntax

```
{
    "EntityId": "string",
    "MaxResults": number,
    "NextToken": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**EntityId (p. 47)**

The identifier for the entity for which to list the aliases.

Type: String


Required: Yes

**MaxResults (p. 47)**

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 47)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String


Required: No

**OrganizationId (p. 47)**

The identifier for the organization under which the entity exists.

Type: String

Pattern: \^[0-9a-f]{32}$

Required: Yes
Response Syntax

```json
{
   "Aliases": [ "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.

**Aliases (p. 48)**

The entity's paginated aliases.

Type: Array of strings


Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+.[a-zA-Z]{2,}`

**NextToken (p. 48)**

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400
OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListGroupMembers

Returns an overview of the members of a group.

Request Syntax

```json
{
   "GroupId": "string",
   "MaxResults": number,
   "NextToken": "string",
   "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**GroupId (p. 50)**

The identifier for the group to which the members are associated.

Type: String


Required: Yes

**MaxResults (p. 50)**

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 50)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String


Required: No

**OrganizationId (p. 50)**

The identifier for the organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes
Response Syntax

```json
{
    "Members": [
        {
            "DisabledDate": number,
            "EnabledDate": number,
            "Id": "string",
            "Name": "string",
            "State": "string",
            "Type": "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.

**Members (p. 51)**

The members associated to the group.

Type: Array of Member (p. 84) objects

**NextToken (p. 51)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.
HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListGroups

Returns summaries of the organization's groups.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**MaxResults (p. 53)**

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 53)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String


Required: No

**OrganizationId (p. 53)**

The identifier for the organization under which the groups exist.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Syntax

```
{
   "Groups": [
      {
         "DisabledDate": number,
         "Email": "string",
         "EnabledDate": number,
         "Id": "string",
      }
   ]
}
```

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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.

Groups (p. 53)

The overview of groups for an organization.

Type: Array of Group (p. 82) objects

NextToken (p. 53)

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListOrganizations

Returns summaries of the customer's non-deleted organizations.

Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**MaxResults (p. 56)**

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 56)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String


Required: No

Response Syntax

```
{
   "NextToken": "string",
   "OrganizationSummaries": [
      {
         "Alias": "string",
         "ErrorMessage": "string",
         "OrganizationId": "string",
         "State": "string"
      }
   ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**NextToken (p. 56)**

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String


**OrganizationSummaries (p. 56)**

The overview of owned organizations presented as a list of organization summaries.

Type: Array of OrganizationSummary (p. 86) objects

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 94).

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

---

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListResourceDelegates

Lists the delegates associated with a resource. Users and groups can be resource delegates and answer requests on behalf of the resource.

**Request Syntax**

```json
{
   "MaxResults": number,
   "NextToken": "string",
   "OrganizationId": "string",
   "ResourceId": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**MaxResults (p. 58)**

The number of maximum results in a page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

**NextToken (p. 58)**

The token used to paginate through the delegates associated with a resource.

Type: String


Required: No

**OrganizationId (p. 58)**

The identifier for the organization that contains the resource for which delegates are listed.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**ResourceId (p. 58)**

The identifier for the resource whose delegates are listed.

Type: String


Required: Yes
Response Syntax

```json
{
  "Delegates": [
    {
      "Id": "string",
      "Type": "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.

**Delegates (p. 59)**

One page of the resource's delegates.

Type: Array of Delegate (p. 81) objects

**NextToken (p. 59)**

The token used to paginate through the delegates associated with a resource. While results are still available, it has an associated value. When the last page is reached, the token is empty.

Type: String


Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400
OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListResources

Returns summaries of the organization's resources.

Request Syntax

```
{
    "MaxResults": number,
    "NextToken": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**MaxResults** (p. 61)

The maximum number of results to return in a single call.

*Type:* Integer

*Valid Range:* Minimum value of 1. Maximum value of 100.

*Required:* No

**NextToken** (p. 61)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

*Type:* String

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

*Required:* No

**OrganizationId** (p. 61)

The identifier for the organization under which the resources exist.

*Type:* String

*Pattern:* ^m-[0-9a-f]{32}$

*Required:* Yes

Response Syntax

```
{
    "NextToken": "string",
    "Resources": [
        {
            "DisabledDate": number,
            "Email": "string",
        }
    ]
}
```
Response Elements

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

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

**NextToken (p. 61)**

The token used to paginate through all the organization's resources. While results are still available, it has an associated value. When the last page is reached, the token is empty.

Type: String


**Resources (p. 61)**

One page of the organization's resource representation.

Type: Array of Resource (p. 88) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

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
See Also

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ListUsers

Returns summaries of the organization's users.

Request Syntax

```json
{
   "MaxResults": number,
   "NextToken": "string",
   "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

MaxResults (p. 64)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NextToken (p. 64)

TBD

Type: String


Required: No

OrganizationId (p. 64)

The identifier for the organization under which the users exist.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Syntax

```json
{
   "NextToken": "string",
   "Users": [
   {
      "DisabledDate": number,
      "DisplayName": "string",
   }
   ]
}
```
Response Elements

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

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

NextToken (p. 64)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String


Users (p. 64)

The overview of users for an organization.

Type: Array of User (p. 90) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

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
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
RegisterToWorkMail

Registers an existing and disabled user, group, or resource/entity for Amazon WorkMail use by associating a mailbox and calendaring capabilities. It performs no change if the entity is enabled and fails if the entity is deleted. This operation results in the accumulation of costs. For more information, see Pricing. The equivalent console functionality for this operation is Enable. Users can either be created by calling the CreateUser API or they can be synchronized from your directory. For more information, see DeregisterFromWorkMail.

Request Syntax

```
{
    "Email": "string",
    "EntityId": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

Email (p. 67)

The email for the entity to be updated.

Type: String


Pattern: \[a-zA-Z0-9._%+-\]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

EntityId (p. 67)

The identifier for the entity to be updated.

Type: String


Required: Yes

OrganizationId (p. 67)

The identifier for the organization under which the Amazon WorkMail entity exists.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Elements

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

For information about the errors that are common to all actions, see Common Errors (p. 94).

**DirectoryServiceAuthenticationFailedException**

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

**DirectoryUnavailableException**

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

**EmailAddressInUseException**

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

**EntityAlreadyRegisteredException**

The user, group, or resource that you're trying to register is already registered.

HTTP Status Code: 400

**EntityNotFoundException**

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

**EntityStateException**

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**MailDomainNotFoundException**

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

**MailDomainStateException**

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400
OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
ResetPassword

Allows the administrator to reset the password for a user.

Request Syntax

```json
{
   "OrganizationId": "string",
   "Password": "string",
   "UserId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**OrganizationId (p. 70)**

The identifier of the organization that contains the user for which the password is reset.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**Password (p. 70)**

The new password for the user.

Type: String

Length Constraints: Maximum length of 256.

Pattern: [\u0020-\u00FF]+

Required: Yes

**UserId (p. 70)**

The identifier of the user for whom the password is reset.

Type: String


Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).
DirectoryServiceAuthenticationFailedException

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

DirectoryUnavailableException

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

InvalidPasswordException

The supplied password doesn't match the minimum security constraints, such as length or use of special characters.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

UnsupportedOperationException

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
UpdatePrimaryEmailAddress

Updates the primary email for an entity. The current email is moved into the list of aliases (or swapped between an existing alias and the current primary email) and the email provided in the input is promoted as the primary.

Request Syntax

```
{
    "Email": "string",
    "EntityId": "string",
    "OrganizationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**Email (p. 73)**

The value of the email to be updated as primary.

Type: String


Pattern: \[a-zA-Z0-9.-%\+]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

**EntityId (p. 73)**

The entity to update (user, group, or resource).

Type: String


Required: Yes

**OrganizationId (p. 73)**

The organization that contains the entity to update.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

Response Elements

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

For information about the errors that are common to all actions, see Common Errors (p. 94).

DirectoryServiceAuthenticationFailedException

The Directory Service doesn't recognize the credentials supplied by the Amazon WorkMail service.

HTTP Status Code: 400

DirectoryUnavailableException

The directory that you are trying to perform operations on isn't available.

HTTP Status Code: 400

EmailAddressInUseException

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

EntityNotFoundException

The identifier supplied for the entity is valid, but it does not exist in your organization.

HTTP Status Code: 400

EntityStateException

You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

HTTP Status Code: 400

InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

MailDomainNotFoundException

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

MailDomainStateException

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400
OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its entities.

HTTP Status Code: 400

UnsupportedOperationException

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
UpdateResource

Updates data for the resource. It must be preceded by a describe call in order to have the latest information. The dataset in the request should be the one expected when performing another describe call.

Request Syntax

```
{
  "BookingOptions": {
    "AutoAcceptRequests": boolean,
    "AutoDeclineConflictingRequests": boolean,
    "AutoDeclineRecurringRequests": boolean
  },
  "Name": "string",
  "OrganizationId": "string",
  "ResourceId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 92).

The request accepts the following data in JSON format.

**BookingOptions (p. 76)**

The resource's booking options to be updated.

Type: BookingOptions (p. 80) object

Required: No

**Name (p. 76)**

The name of the resource to be updated.

Type: String


Pattern: [\w\-]+\@[a-zA-Z0-9.\-]+\.[a-zA-Z0-9\-]+\}\{2,\}?

Required: No

**OrganizationId (p. 76)**

The identifier associated with the organization for which the resource is updated.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: Yes

**ResourceId (p. 76)**

The identifier of the resource to be updated.

Type: String
Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 94).

- **DirectoryUnavailableException**
  
  The directory that you are trying to perform operations on isn't available.

  HTTP Status Code: 400

- **EmailAddressInUseException**
  
  The email address that you're trying to assign is already created for a different user, group, or resource.

  HTTP Status Code: 400

- **EntityNotFoundException**
  
  The identifier supplied for the entity is valid, but it does not exist in your organization.

  HTTP Status Code: 400

- **EntityStateException**
  
  You are performing an operation on an entity that isn't in the expected state, such as trying to update a deleted user.

  HTTP Status Code: 400

- **InvalidConfigurationException**
  
  The configuration for a resource isn't valid. A resource must either be able to auto-respond to requests or have at least one delegate associated that can do it on its behalf.

  HTTP Status Code: 400

- **MailDomainNotFoundException**
  
  For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

  HTTP Status Code: 400

- **MailDomainStateException**
  
  After a domain has been added to the organization, it must be verified. The domain is not yet verified.

  HTTP Status Code: 400

- **NameAvailabilityException**
  
  The entity (user, group, or user) name isn't unique in Amazon WorkMail.

  HTTP Status Code: 400
OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on
the organization or its entities.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Data Types

The Amazon WorkMail 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:

- BookingOptions (p. 80)
- Delegate (p. 81)
- Group (p. 82)
- Member (p. 84)
- OrganizationSummary (p. 86)
- Resource (p. 88)
- User (p. 90)
BookingOptions

At least one delegate must be associated to the resource to disable automatic replies from the resource.

Contents

AutoAcceptRequests

The resource's ability to automatically reply to requests. If disabled, delegates must be associated to the resource.

Type: Boolean

Required: No

AutoDeclineConflictingRequests

The resource's ability to automatically decline any conflicting requests.

Type: Boolean

Required: No

AutoDeclineRecurringRequests

The resource's ability to automatically decline any recurring requests.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Delegate

The name of the attribute, which is one of the values defined in the UserAttribute enumeration.

Contents

Id

The identifier for the user or group is associated as the resource's delegate.

Type: String
Length Constraints: Maximum length of 256.
Required: Yes

Type

The type of the delegate: user or group.

Type: String
Valid Values: GROUP | USER
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Group

The representation of an Amazon WorkMail group.

Contents

**DisabledDate**

The date indicating when the group was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

**Email**

The email of the group.

Type: String


Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

Required: No

**EnabledDate**

The date indicating when the group was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

**Id**

The identifier of the group.

Type: String


Required: No

**Name**

The name of the group.

Type: String

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

Pattern: `[ -ÿ]+`

Required: No

**State**

The state of the group, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: ENABLED | DISABLED | DELETED
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Member

The representation of a group member (user or group).

Contents

**DisabledDate**

The date indicating when the member was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

**EnabledDate**

The date indicating when the member was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

**Id**

The identifier of the member.

Type: String

Length Constraints: Maximum length of 256.

Required: No

**Name**

The name of the member.

Type: String

Length Constraints: Maximum length of 256.

Required: No

**State**

The state of the member, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: ENABLED | DISABLED | DELETED

Required: No

**Type**

A member can be a user or group.

Type: String

Valid Values: GROUP | USER

Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
OrganizationSummary

The brief overview associated with an organization.

Contents

Alias

The alias associated with the organization.

Type: String


Pattern: ^(?!d-)((\da-zA-Z\+)([-]*\da-zA-Z\+))*

Required: No

ErrorMessage

The error message associated with the organization. It is only present if unexpected behavior has occurred with regards to the organization. It provides insight or solutions regarding unexpected behavior.

Type: String

Length Constraints: Maximum length of 256.

Required: No

OrganizationId

The identifier associated with the organization.

Type: String

Pattern: ^m-[0-9a-f]{32}$

Required: No

State

The state associated with the organization.

Type: String

Length Constraints: Maximum length of 256.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Resource

The overview for a resource containing relevant data regarding it.

Contents

DisabledDate

The date indicating when the resource was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

Email

The email of the resource.

Type: String


Pattern: [a-zA-Z0-9._%+-](1,64)@[a-zA-Z0-9.-]+.[a-zA-Z]{2,}

Required: No

EnabledDate

The date indicating when the resource was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

Id

The identifier of the resource.

Type: String


Required: No

Name

The name of the resource.

Type: String


Pattern: [\w\-]+(@[a-zA-Z0-9.-]+)[a-zA-Z0-9\{2,}\}\)

Required: No

State

The state of the resource, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: ENABLED | DISABLED | DELETED
Required: No

**Type**

The type of the resource: equipment or room.

Type: String

Valid Values: ROOM | EQUIPMENT

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
User

The representation of an Amazon WorkMail user.

Contents

**DisabledDate**

The date indicating when the user was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

**DisplayName**

The display name of the user.

Type: String

Length Constraints: Maximum length of 256.

Required: No

**Email**

The email of the user.

Type: String


Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

Required: No

**EnabledDate**

The date indicating when the user was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

**Id**

The identifier of the user.

Type: String


Required: No

**Name**

The name of the user.

Type: String

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

Pattern: `[^\W\-\_]\+[\{\{a-zA-Z0-9-\}+\.|\[a-zA-Z0-9\}2,]?`
Required: No

**State**

The state of the user, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: ENABLED | DISABLED | DELETED

Required: No

**UserRole**

The role of the user.

Type: String

Valid Values: USER | RESOURCE | SYSTEM_USER

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

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

Type: string

Required: Yes

**X-Amz-Algorithm**

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.

For more information, see Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

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

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'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 Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

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

Type: string
Required: Conditional

X-Amz-Signature

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

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

Type: string
Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

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

Type: string
Required: Conditional
Common Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

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

HTTP Status Code: 500

**InvalidAction**

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

HTTP Status Code: 400

**InvalidClientTokenId**

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

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

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

HTTP Status Code: 400

**InvalidQueryParameter**

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

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
**MissingAuthenticationToken**

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

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400