



API Reference

AWS Interconnect



API Version 2022-07-26

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AWS Interconnect: API Reference

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Welcome

Provides managed connections between your AWS network resources and select partner network resources.

This document was last published on May 14, 2026.

Actions

The following actions are supported:

- [AcceptConnectionProposal](#)
- [CreateConnection](#)
- [DeleteConnection](#)
- [DescribeConnectionProposal](#)
- [GetConnection](#)
- [GetEnvironment](#)
- [ListAttachPoints](#)
- [ListConnections](#)
- [ListEnvironments](#)
- [ListTagsForResource](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateConnection](#)

AcceptConnectionProposal

Accepts a connection proposal which was generated at a supported partner's portal.

The proposal contains the [Environment](#) and bandwidth that were chosen on the partner's portal and cannot be modified.

Upon accepting the proposal a connection will be made between the AWS network as accessed via the selected [AttachPoint](#) and the network previously selected network on the partner's portal.

Request Parameters

activationKey

An Activation Key that was generated on a supported partner's portal. This key captures the desired parameters from the initial creation request.

The details of this request can be described using with [DescribeConnectionProposal](#).

Type: String

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

Required: Yes

attachPoint

The [AttachPoint](#) to which the connection should be associated.

Type: [AttachPoint](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

clientToken

Idempotency token used for the request.

Type: String

Required: No

description

A description to distinguish this [Connection](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [-a-zA-Z0-9_]+

Required: No

tags

The tags to associate with the resulting [Connection](#).

Type: String to string map

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

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

Required: No

Response Elements

The following element is returned by the service.

connection

The created [Connection](#) object.

Type: [Connection](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

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

CreateConnection

Initiates the process to create a Connection across the specified Environment.

The Environment dictates the specified partner and location to which the other end of the connection should attach. You can see a list of the available Environments by calling [ListEnvironments](#)

The [AttachPoint](#) specifies where within the AWS Network your connection will logically connect.

After a successful call to this method, the resulting [Connection](#) will return an Activation Key which will need to be brought to the specific partner's portal to confirm the [Connection](#) on both sides. (See [Environment:activationPageUrl](#) for a direct link to the partner portal).

Request Parameters

attachPoint

The [AttachPoint](#) to which the connection should be associated."

Type: [AttachPoint](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

bandwidth

The desired bandwidth of the requested [Connection](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

Required: Yes

clientToken

Idempotency token used for the request.

Type: String

Required: No

description

A description to distinguish this [Connection](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [-a-zA-Z0-9_]+

Required: No

environmentId

The identifier of the [Environment](#) across which this [Connection](#) should be created.

The available [Environment](#) objects can be determined using [ListEnvironments](#).

Type: String

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

Required: Yes

remoteAccount

Account and/or principal identifying information that can be verified by the partner of this specific Environment.

Type: [RemoteAccountIdentifier](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

tags

The tag to associate with the resulting [Connection](#).

Type: String to string map

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

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

Required: No

Response Elements

The following element is returned by the service.

connection

The resulting [Connection](#).

Type: [Connection](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteConnection

Deletes an existing [Connection](#) with the supplied identifier.

This operation will also inform the remote partner of your intention to delete your connection.

Note, the partner may still require you to delete to fully clean up resources, but the network connectivity provided by the [Connection](#) will cease to exist.

Request Parameters

clientToken

Idempotency token used for the request.

Type: String

Required: No

identifier

The identifier of the [Connection](#) to be deleted.

Type: String

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

Pattern: (mcc|1mcc)-[a-z0-9]{8}

Required: Yes

Response Elements

The following element is returned by the service.

connection

The [Connection](#) object that has been marked for deletion.

Type: [Connection](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeConnectionProposal

Describes the details of a connection proposal generated at a partner's portal. This proposal is delivered in the form of an Activation Key.

Request Parameters

activationKey

An Activation Key that was generated on a supported partner's portal. This key captures the desired parameters from the initial creation request.

Type: String

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

Required: Yes

Response Elements

The following elements are returned by the service.

bandwidth

The bandwidth of the proposed [Connection](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: \d+[MG]bps

environmentId

The identifier of the [Environment](#) upon which the [Connection](#) would be placed if this proposal were accepted.

Type: String

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

location

The partner specific location distinguisher of the specific [Environment](#) of the proposal.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

provider

The partner provider of the specific [Environment](#) of the proposal.

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetConnection

Describes the current state of a Connection resource as specified by the identifier.

Request Parameters

identifier

The identifier of the requested [Connection](#)

Type: String

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

Pattern: (mcc|1mcc)-[a-z0-9]{8}

Required: Yes

Response Elements

The following element is returned by the service.

connection

The existing [Connection](#) resource.

Type: [Connection](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerErrorException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetEnvironment

Describes a specific [Environment](#)

Request Parameters

id

The identifier of the specific [Environment](#) to describe.

Type: String

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

Required: Yes

Response Elements

The following element is returned by the service.

environment

The requested [Environment](#) structure.

Type: [Environment](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

ListAttachPoints

Lists all [AttachPoint](#) options the caller has access to that are valid for the specified [Environment](#).

Request Parameters

environmentId

The identifier of the [Environment](#) for which to list valid Attach Points.

Type: String

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

Required: Yes

maxResults

The max number of list results in a single paginated response.

Type: Integer

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

Required: No

nextToken

A pagination token from a previous paginated response indicating you wish to get the next page.

Type: String

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

Required: No

Response Elements

The following elements are returned by the service.

attachPoints

The valid [AttachPoint](#)

Type: Array of [AttachPointDescriptor](#) objects

nextToken

A pagination token indicating that there are more results that can be fetched.

Type: String

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

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListConnections

Lists all connection objects to which the caller has access.

Allows for optional filtering by the following properties:

- state
- environmentId
- provider
- attach point

Only [Connection](#) objects matching all filters will be returned.

Request Parameters

attachPoint

Filter results to only include [Connection](#) objects attached to the given [AttachPoint](#).

Type: [AttachPoint](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

environmentId

Filter the results to only include [Connection](#) objects on the given [Environment](#).

Type: String

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

Required: No

maxResults

The max number of list results in a single paginated response.

Type: Integer

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

Required: No

nextToken

A pagination token from a previous paginated response indicating you wish to get the next page of results.

Type: String

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

Required: No

provider

Filter the results to only include [Connection](#) objects to the given [Provider](#).

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

state

Filter the results to only include [Connection](#) objects in the given [Connection:state](#).

Type: String

Valid Values: available | requested | pending | down | deleting | deleted | failed | updating

Required: No

Response Elements

The following elements are returned by the service.

connections

The resulting list of [Connection](#) objects.

Type: Array of [ConnectionSummary](#) objects

nextToken

A pagination token for use in subsequent calls to fetch the next page of results.

Type: String

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

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEnvironments

Provides the list of all [Environment](#) objects known to the service.

When creating a [Connection](#), the selected [Environment](#) is used to determine the partner and location the resulting connectivity provides access to.

Request Parameters

location

Filter results to only include [Environment](#) objects that connect to a given location distinguisher.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Required: No

maxResults

The max number of list results in a single paginated response.

Type: Integer

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

Required: No

nextToken

A pagination token from a previous paginated response indicating you wish to get the next page of results.

Type: String

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

Required: No

provider

Filter results to only include [Environment](#) objects that connect to the [Provider](#).

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Elements

The following elements are returned by the service.

environments

The list of matching [Environment](#) objects.

Type: Array of [Environment](#) objects

nextToken

A pagination token for use in subsequent calls to fetch the next page of results.

Type: String

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

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

ListTagsForResource

List all current tags on the specified resource.

Currently this only supports [Connection](#) resources.

Request Parameters

arn

The resource ARN for which to list tags.

Currently this must be an ARN for a [Connection](#) resource.

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: Yes

Response Elements

The following element is returned by the service.

tags

The tags on the specified ARN.

Type: String to string map

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

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 Error Types](#).

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

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- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
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- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Add new tags to the specified resource.

Currently this only supports [Connection](#) resources.

Request Parameters

arn

The ARN of the resource that should receive the new tags.

Currently this must be an ARN for a [Connection](#) resource.

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: Yes

tags

A map of tags to apply to the specified resource.

Type: String to string map

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

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

Required: Yes

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

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

UntagResource

Removes tags from the specified resource.

Currently this only supports [Connection](#) resources.

Request Parameters

arn

The ARN of the resource from which the specified tags should be removed.

Currently this must be an ARN for a [Connection](#) resource.

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: Yes

tagKeys

The list of tag keys that should be removed from the resource.

Type: Array of strings

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

Required: Yes

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

UpdateConnection

Modifies an existing connection. Currently we support modifications to the connection's description and/or bandwidth.

Request Parameters

bandwidth

Request a new bandwidth size on the given [Connection](#).

Note that changes to the size may be subject to additional policy, and does require the remote partner provider to acknowledge and permit this new bandwidth size.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

Required: No

clientToken

Idempotency token used for the request.

Type: String

Required: No

description

An updated description to apply to the [Connection](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[-a-zA-Z0-9_]+`

Required: No

identifier

The identifier of the [Connection](#) that should be updated.

Type: String

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

Pattern: (mcc|1mcc)-[a-z0-9]{8}

Required: Yes

Response Elements

The following element is returned by the service.

connection

The resulting updated [Connection](#)

Type: [Connection](#) object

Errors

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

AccessDeniedException

The calling principal is not allowed to access the specified resource, or the resource does not exist.

HTTP Status Code: 403

InterconnectClientException

The request was denied due to incorrect client supplied parameters.

HTTP Status Code: 400

InterconnectServerException

The request resulted in an exception internal to the service.

HTTP Status Code: 500

InterconnectValidationException

The input fails to satisfy the constraints specified.

HTTP Status Code: 400

ResourceNotFoundException

The request specifies a resource that does not exist on the server.

HTTP Status Code: 404

ServiceQuotaExceededException

The requested operation would result in the calling principal exceeding their allotted quota.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429


See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The Interconnect 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:

- [AttachPoint](#)
- [AttachPointDescriptor](#)
- [Bandwidths](#)
- [Connection](#)
- [ConnectionSummary](#)
- [Environment](#)
- [Provider](#)
- [RemoteAccountIdentifier](#)

AttachPoint

A generalization of an AWS network location to which a [Connection](#) can be attached.

Currently, the only supported type of AttachPoint is a DirectConnect Gateway.

Contents

Important

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

arn

Identifies an attach point by full ARN.

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: No

directConnectGateway

Identifies an DirectConnect Gateway attach point by DirectConnectGatewayID.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: No

See Also

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

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

AttachPointDescriptor

Describes a possible Attach Point for a Connection.

Contents

identifier

The identifier for the specific type of the AttachPoint.

Type: String

Required: Yes

name

The descriptive name of the identifier attach point.

Type: String

Required: Yes

type

The type of identifier for the AttachPoint, which will dictate the syntax of the identifier.

Current types include:

- ARN
- DirectConnect Gateway

Type: String

Valid Values: `DirectConnectGateway`

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](#)

Bandwidths

Contains the details about the available and supported bandwidths.

Contents

available

The list of currently available bandwidths.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

Required: No

supported

The list of all bandwidths that this environment plans to support

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

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](#)

Connection

The object describing the provided connectivity from the AWS region to the partner location.

Contents

activationKey

The Activation Key associated to this [Connection](#).

Type: String

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

Required: Yes

arn

An ARN of a [Connection](#) object.

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: Yes

attachPoint

The Attach Point to which the [Connection](#) should be associated."

Type: [AttachPoint](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

bandwidth

The specific selected bandwidth of this [Connection](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

Required: Yes

description

A descriptive name for the [Connection](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[-a-zA-Z0-9_]+`

Required: Yes

environmentId

The specific [Environment](#) this [Connection](#) is placed upon.

Type: String

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

Required: Yes

id

The short identifier of the connection object.

Type: String

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

Pattern: `(mcc|1mcc)-[a-z0-9]{8}`

Required: Yes

location

The provider specific location on the remote side of this [Connection](#)

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Required: Yes

ownerAccount

The account that owns this [Connection](#).

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

Required: Yes

provider

The provider on the remote side of this [Connection](#).

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

sharedId

An identifier used by both AWS and the remote partner to identify the specific [Connection](#).

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}

Required: Yes

state

- **requested:** The initial state of a connection. The state will remain here until the Connection is accepted on the Partner portal.
- **pending:** The connection has been accepted and is being provisioned between AWS and the Partner.

- **available**: The connection has been fully provisioned between AWS and the Partner.
- **deleting**: The connection is being deleted.
- **deleted**: The connection has been deleted.
- **failed**: The connection has failed to be created.
- **updating**: The connection is being updated.

Type: String

Valid Values: available | requested | pending | down | deleting | deleted | failed | updating

Required: Yes

type

The specific product type of this [Connection](#).

Type: String

Length Constraints: Minimum length of 5. Maximum length of 32.

Required: Yes

billingTier

The billing tier this [Connection](#) is currently assigned.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 8.

Required: No

tags

The tags on the [Connection](#)

Type: String to string map

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

Value Length Constraints: Minimum length of 0. 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectionSummary

Summarized view of a [Connection](#) object.

Contents

arn

The ARN of the [Connection](#)

Type: String

Length Constraints: Minimum length of 59. Maximum length of 150.

Pattern: `arn:aws[a-z-]*:interconnect:[^:]+:[0-9]{12}:connection/(mcc|lmcc)-[a-z0-9]{8}`

Required: Yes

attachPoint

The Attach Point to which the [Connection](#) should be associated.

Type: [AttachPoint](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

bandwidth

The bandwidth of the [Connection](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8.

Pattern: `\d+[MG]bps`

Required: Yes

description

A descriptive name of the [Connection](#)

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [-a-zA-Z0-9_]+

Required: Yes

environmentId

The [Environment](#) that this [Connection](#) is created on.

Type: String

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

Required: Yes

id

The identifier of the requested [Connection](#)

Type: String

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

Pattern: (mcc|1mcc)-[a-z0-9]{8}

Required: Yes

location

The provider specific location at the remote end of this [Connection](#)

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Required: Yes

provider

The provider on the remote end of this [Connection](#)

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

sharedId

An identifier used by both AWS and the remote partner to identify the specific [Connection](#).

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

Required: Yes

state

- `requested`: The initial state of a connection. The state will remain here until the Connection is accepted on the Partner portal.
- `pending`: The connection has been accepted and is being provisioned between AWS and the Partner.
- `available`: The connection has been fully provisioned between AWS and the Partner.
- `deleting`: The connection is being deleted.
- `deleted`: The connection has been deleted.
- `failed`: The connection has failed to be created.
- `updating`: The connection is being updated.

Type: String

Valid Values: `available` | `requested` | `pending` | `down` | `deleting` | `deleted` | `failed` | `updating`

Required: Yes

type

The product variant supplied by this resource.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 32.

Required: Yes

billingTier

The billing tier this [Connection](#) is currently assigned.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 8.

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](#)

Environment

Defines the logical topology that an AWS Interconnect [Connection](#) is created upon.

Specifically, an Environment defines the partner The remote Cloud Service Provider of this resource. or The remote Last Mile Provider of this resource. and the region or location specification to which an AWS Interconnect Connection can be made.

Contents

bandwidths

The sets of bandwidths that are available and supported on this environment.

Type: [Bandwidths](#) object

Required: Yes

environmentId

The identifier of this [Environment](#)

Type: String

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

Required: Yes

location

The provider specific location on the remote side of this [Connection](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Required: Yes

provider

The provider on the remote side of this [Connection](#).

Type: [Provider](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

state

The state of the [Environment](#). Possible values:

- **available**: The environment is available and new [Connection](#) objects can be requested.
- **limited**: The environment is available, but overall capacity is limited. The set of available bandwidths
- **unavailable**: The environment is currently unavailable.

Type: String

Valid Values: `available` | `limited` | `unavailable`

Required: Yes

type

The specific product type of [Connection](#) objects provided by this [Environment](#).

Type: String

Length Constraints: Minimum length of 5. Maximum length of 32.

Required: Yes

activationPageUrl

An HTTPS URL on the remote partner portal where the Activation Key should be brought to complete the creation process.

Type: String

Required: No

remoteIdentifierType

The type of identifying information that should be supplied to the `remoteAccount` parameter of a [CreateConnection](#) call for this specific Environment.

Type: String

Valid Values: `account` | `email`

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](#)

Provider

Describes the respective AWS Interconnect Partner organization.

Contents

Important

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

cloudServiceProvider

The provider's name. Specifically, connections to/from this Cloud Service Provider will be considered Multicloud connections.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32.

Required: No

lastMileProvider

The provider's name. Specifically, connections to/from this Last Mile Provider will be considered LastMile connections.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 32.

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](#)

RemoteAccountIdentifier

The types of identifiers that may be needed for remote account specification.

Contents

Important

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

identifier

A generic bit of identifying information. Can be used in place of any of the more specific types.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [-a-zA-Z0-9_@\.]+

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](#)

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*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400