
AWS Network Manager

API Reference

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AWS Network Manager: API Reference

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Welcome

Transit Gateway Network Manager (Network Manager) enables you to create a global network, in which you can monitor your AWS and on-premises networks that are built around transit gateways.

The Network Manager APIs are supported in the US West (Oregon) Region only. You must specify the `us-west-2` Region in all requests made to Network Manager.

This document was last published on November 23, 2020.

Actions

The following actions are supported:

- [AssociateCustomerGateway](#) (p. 3)
- [AssociateLink](#) (p. 6)
- [CreateDevice](#) (p. 9)
- [CreateGlobalNetwork](#) (p. 13)
- [CreateLink](#) (p. 16)
- [CreateSite](#) (p. 20)
- [DeleteDevice](#) (p. 23)
- [DeleteGlobalNetwork](#) (p. 26)
- [DeleteLink](#) (p. 28)
- [DeleteSite](#) (p. 31)
- [DeregisterTransitGateway](#) (p. 34)
- [DescribeGlobalNetworks](#) (p. 36)
- [DisassociateCustomerGateway](#) (p. 39)
- [DisassociateLink](#) (p. 41)
- [GetCustomerGatewayAssociations](#) (p. 44)
- [GetDevices](#) (p. 47)
- [GetLinkAssociations](#) (p. 50)
- [GetLinks](#) (p. 53)
- [GetSites](#) (p. 56)
- [GetTransitGatewayRegistrations](#) (p. 59)
- [ListTagsForResource](#) (p. 62)
- [RegisterTransitGateway](#) (p. 64)
- [TagResource](#) (p. 67)
- [UntagResource](#) (p. 69)
- [UpdateDevice](#) (p. 71)
- [UpdateGlobalNetwork](#) (p. 75)
- [UpdateLink](#) (p. 78)
- [UpdateSite](#) (p. 82)

AssociateCustomerGateway

Associates a customer gateway with a device and optionally, with a link. If you specify a link, it must be associated with the specified device.

You can only associate customer gateways that are connected to a VPN attachment on a transit gateway. The transit gateway must be registered in your global network. When you register a transit gateway, customer gateways that are connected to the transit gateway are automatically included in the global network. To list customer gateways that are connected to a transit gateway, use the [DescribeVpnConnections](#) EC2 API and filter by `transit-gateway-id`.

You cannot associate a customer gateway with more than one device and link.

Request Syntax

```
POST /global-networks/globalNetworkId/customer-gateway-associations HTTP/1.1
Content-type: application/json

{
  "CustomerGatewayArn": "string",
  "DeviceId": "string",
  "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 3\)](#)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[CustomerGatewayArn \(p. 3\)](#)

The Amazon Resource Name (ARN) of the customer gateway. For more information, see [Resources Defined by Amazon EC2](#).

Type: String

Required: Yes

[DeviceId \(p. 3\)](#)

The ID of the device.

Type: String

Required: Yes

[LinkId \(p. 3\)](#)

The ID of the link.

Type: String

Required: No

Response Syntax

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

{
  "CustomerGatewayAssociation": {
    "CustomerGatewayArn": "string",
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "LinkId": "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.

CustomerGatewayAssociation (p. 4)

The customer gateway association.

Type: [CustomerGatewayAssociation](#) (p. 87) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

AssociateLink

Associates a link to a device. A device can be associated to multiple links and a link can be associated to multiple devices. The device and link must be in the same global network and the same site.

Request Syntax

```
POST /global-networks/globalNetworkId/link-associations HTTP/1.1
Content-type: application/json

{
  "DeviceId": "string",
  "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 6\)](#)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[DeviceId \(p. 6\)](#)

The ID of the device.

Type: String

Required: Yes

[LinkId \(p. 6\)](#)

The ID of the link.

Type: String

Required: Yes

Response Syntax

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

{
  "LinkAssociation": {
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "LinkAssociationState": "string",
  }
}
```

```
    "LinkId": "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.

LinkAssociation (p. 6)

The link association.

Type: [LinkAssociation](#) (p. 94) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

HTTP Status Code: 400

See Also

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

CreateDevice

Creates a new device in a global network. If you specify both a site ID and a location, the location of the site is used for visualization in the Network Manager console.

Request Syntax

```
POST /global-networks/globalNetworkId/devices HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "Location": {
    "Address": "string",
    "Latitude": "string",
    "Longitude": "string"
  },
  "Model": "string",
  "SerialNumber": "string",
  "SiteId": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Type": "string",
  "Vendor": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 9\)](#)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Description \(p. 9\)](#)

A description of the device.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

[Location \(p. 9\)](#)

The location of the device.

Type: [Location \(p. 95\)](#) object

Required: No

Model (p. 9)

The model of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

SerialNumber (p. 9)

The serial number of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

SiteId (p. 9)

The ID of the site.

Type: String

Required: No

Tags (p. 9)

The tags to apply to the resource during creation.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Type (p. 9)

The type of the device.

Type: String

Required: No

Vendor (p. 9)

The vendor of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Response Syntax

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

```
{
  "Device": {
    "CreatedAt": number,
    "Description": "string",
    "DeviceArn": "string",
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "Location": {
      "Address": "string",
      "Latitude": "string",
      "Longitude": "string"
    },
    "Model": "string",
    "SerialNumber": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "Type": "string",
    "Vendor": "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.

Device (p. 10)

Information about the device.

Type: [Device \(p. 88\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

CreateGlobalNetwork

Creates a new, empty global network.

Request Syntax

```
POST /global-networks HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Description (p. 13)

A description of the global network.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Tags (p. 13)

The tags to apply to the resource during creation.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Response Syntax

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

{
  "GlobalNetwork": {
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkArn": "string",
    "GlobalNetworkId": "string",
```

```
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

GlobalNetwork (p. 13)

Information about the global network object.

Type: [GlobalNetwork \(p. 90\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

CreateLink

Creates a new link for a specified site.

Request Syntax

```
POST /global-networks/globalNetworkId/links HTTP/1.1
Content-type: application/json

{
  "Bandwidth": {
    "DownloadSpeed": number,
    "UploadSpeed": number
  },
  "Description": "string",
  "Provider": "string",
  "SiteId": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 16)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 16)

The upload speed and download speed in Mbps.

Type: [Bandwidth](#) (p. 86) object

Required: Yes

Description (p. 16)

A description of the link.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Provider (p. 16)

The provider of the link.

Constraints: Cannot include the following characters: | \ ^

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

SiteId (p. 16)

The ID of the site.

Type: String

Required: Yes

Tags (p. 16)

The tags to apply to the resource during creation.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Type (p. 16)

The type of the link.

Constraints: Cannot include the following characters: | \ ^

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Response Syntax

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

{
  "Link": {
    "Bandwidth": {
      "DownloadSpeed": number,
      "UploadSpeed": number
    },
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkId": "string",
    "LinkArn": "string",
    "LinkId": "string",
    "Provider": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

Link (p. 17)

Information about the link.

Type: [Link \(p. 92\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

CreateSite

Creates a new site in a global network.

Request Syntax

```
POST /global-networks/globalNetworkId/sites HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "Location": {
    "Address": "string",
    "Latitude": "string",
    "Longitude": "string"
  },
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 20)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 20)

A description of your site.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Location (p. 20)

The site location. This information is used for visualization in the Network Manager console. If you specify the address, the latitude and longitude are automatically calculated.

- **Address**: The physical address of the site.
- **Latitude**: The latitude of the site.
- **Longitude**: The longitude of the site.

Type: [Location](#) (p. 95) object

Required: No

Tags (p. 20)

The tags to apply to the resource during creation.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Response Syntax

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

{
  "Site": {
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkId": "string",
    "Location": {
      "Address": "string",
      "Latitude": "string",
      "Longitude": "string"
    },
    "SiteArn": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

Site (p. 21)

Information about the site.

Type: [Site \(p. 96\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DeleteDevice

Deletes an existing device. You must first disassociate the device from any links and customer gateways.

Request Syntax

```
DELETE /global-networks/globalNetworkId/devices/deviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deviceId \(p. 23\)](#)

The ID of the device.

Required: Yes

[globalNetworkId \(p. 23\)](#)

The ID of the global network.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Device": {
    "CreatedAt": number,
    "Description": "string",
    "DeviceArn": "string",
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "Location": {
      "Address": "string",
      "Latitude": "string",
      "Longitude": "string"
    },
    "Model": "string",
    "SerialNumber": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "string"
      }
    ],
    "Type": "string",
```

```
    "Vendor": "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.

Device (p. 23)

Information about the device.

Type: [Device \(p. 88\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DeleteGlobalNetwork

Deletes an existing global network. You must first delete all global network objects (devices, links, and sites) and deregister all transit gateways.

Request Syntax

```
DELETE /global-networks/globalNetworkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 26\)](#)

The ID of the global network.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "GlobalNetwork": {
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkArn": "string",
    "GlobalNetworkId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

[GlobalNetwork \(p. 26\)](#)

Information about the global network.

Type: [GlobalNetwork \(p. 90\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DeleteLink

Deletes an existing link. You must first disassociate the link from any devices and customer gateways.

Request Syntax

```
DELETE /global-networks/globalNetworkId/links/linkId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 28\)](#)

The ID of the global network.

Required: Yes

[linkId \(p. 28\)](#)

The ID of the link.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Link": {
    "Bandwidth": {
      "DownloadSpeed": number,
      "UploadSpeed": number
    },
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkId": "string",
    "LinkArn": "string",
    "LinkId": "string",
    "Provider": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

[Link \(p. 28\)](#)

Information about the link.

Type: [Link \(p. 92\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DeleteSite

Deletes an existing site. The site cannot be associated with any device or link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/sites/siteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 31\)](#)

The ID of the global network.

Required: Yes

[siteId \(p. 31\)](#)

The ID of the site.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Site": {
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkId": "string",
    "Location": {
      "Address": "string",
      "Latitude": "string",
      "Longitude": "string"
    },
    "SiteArn": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

Site (p. 31)

Information about the site.

Type: [Site \(p. 96\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DeregisterTransitGateway

Deregisters a transit gateway from your global network. This action does not delete your transit gateway, or modify any of its attachments. This action removes any customer gateway associations.

Request Syntax

```
DELETE /global-networks/globalNetworkId/transit-gateway-registrations/transitGatewayArn
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 34\)](#)

The ID of the global network.

Required: Yes

[transitGatewayArn \(p. 34\)](#)

The Amazon Resource Name (ARN) of the transit gateway.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "TransitGatewayRegistration": {
    "GlobalNetworkId": "string",
    "State": {
      "Code": "string",
      "Message": "string"
    },
    "TransitGatewayArn": "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.

[TransitGatewayRegistration \(p. 34\)](#)

The transit gateway registration information.

Type: [TransitGatewayRegistration](#) (p. 99) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DescribeGlobalNetworks

Describes one or more global networks. By default, all global networks are described. To describe the objects in your global network, you must use the appropriate `Get*` action. For example, to list the transit gateways in your global network, use [GetTransitGatewayRegistrations](#) (p. 59).

Request Syntax

```
GET /global-networks?  
globalNetworkIds=GlobalNetworkIds&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

GlobalNetworkIds (p. 36)

The IDs of one or more global networks. The maximum is 10.

MaxResults (p. 36)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 36)

The token for the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "GlobalNetworks": [  
    {  
      "CreatedAt": number,  
      "Description": "string",  
      "GlobalNetworkArn": "string",  
      "GlobalNetworkId": "string",  
      "State": "string",  
      "Tags": [  
        {  
          "Key": "string",  
          "Value": "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.

GlobalNetworks (p. 36)

Information about the global networks.

Type: Array of [GlobalNetwork](#) (p. 90) objects

NextToken (p. 36)

The token for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DisassociateCustomerGateway

Disassociates a customer gateway from a device and a link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/customer-gateway-associations/customerGatewayArn
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

customerGatewayArn (p. 39)

The Amazon Resource Name (ARN) of the customer gateway. For more information, see [Resources Defined by Amazon EC2](#).

Required: Yes

globalNetworkId (p. 39)

The ID of the global network.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "CustomerGatewayAssociation": {
    "CustomerGatewayArn": "string",
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "LinkId": "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.

CustomerGatewayAssociation (p. 39)

Information about the customer gateway association.

Type: [CustomerGatewayAssociation](#) (p. 87) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

DisassociateLink

Disassociates an existing device from a link. You must first disassociate any customer gateways that are associated with the link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/link-associations?deviceId=DeviceId&linkId=LinkId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId (p. 41)

The ID of the device.

Required: Yes

globalNetworkId (p. 41)

The ID of the global network.

Required: Yes

LinkId (p. 41)

The ID of the link.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "LinkAssociation": {
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "LinkAssociationState": "string",
    "LinkId": "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.

[LinkAssociation \(p. 41\)](#)

Information about the link association.

Type: [LinkAssociation \(p. 94\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetCustomerGatewayAssociations

Gets the association information for customer gateways that are associated with devices and links in your global network.

Request Syntax

```
GET /global-networks/globalNetworkId/customer-gateway-associations?
customerGatewayArns=CustomerGatewayArns&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

CustomerGatewayArns (p. 44)

One or more customer gateway Amazon Resource Names (ARNs). For more information, see [Resources Defined by Amazon EC2](#). The maximum is 10.

globalNetworkId (p. 44)

The ID of the global network.

Required: Yes

MaxResults (p. 44)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 44)

The token for the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "CustomerGatewayAssociations": [
    {
      "CustomerGatewayArn": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "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.

CustomerGatewayAssociations (p. 44)

The customer gateway associations.

Type: Array of [CustomerGatewayAssociation](#) (p. 87) objects

NextToken (p. 44)

The token for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetDevices

Gets information about one or more of your devices in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/devices?  
deviceIds=DeviceIds&maxResults=MaxResults&nextToken=NextToken&siteId=SiteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceIds (p. 47)

One or more device IDs. The maximum is 10.

globalNetworkId (p. 47)

The ID of the global network.

Required: Yes

MaxResults (p. 47)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 47)

The token for the next page of results.

SiteId (p. 47)

The ID of the site.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "Devices": [  
    {  
      "CreatedAt": number,  
      "Description": "string",  
      "DeviceArn": "string",  
      "DeviceId": "string",  
      "GlobalNetworkId": "string",  
      "Location": {  
        "Address": "string",  
        "Latitude": "string",  
        "Longitude": "string"  
      }  
    }  
  ]  
}
```

```
    },  
    "Model": "string",  
    "SerialNumber": "string",  
    "SiteId": "string",  
    "State": "string",  
    "Tags": [  
      {  
        "Key": "string",  
        "Value": "string"  
      }  
    ],  
    "Type": "string",  
    "Vendor": "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.

Devices (p. 47)

The devices.

Type: Array of [Device \(p. 88\)](#) objects

NextToken (p. 47)

The token for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetLinkAssociations

Gets the link associations for a device or a link. Either the device ID or the link ID must be specified.

Request Syntax

```
GET /global-networks/globalNetworkId/link-associations?  
deviceId=DeviceId&linkId=LinkId&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId (p. 50)

The ID of the device.

globalNetworkId (p. 50)

The ID of the global network.

Required: Yes

LinkId (p. 50)

The ID of the link.

MaxResults (p. 50)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 50)

The token for the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "LinkAssociations": [  
    {  
      "DeviceId": "string",  
      "GlobalNetworkId": "string",  
      "LinkAssociationState": "string",  
      "LinkId": "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.

LinkAssociations (p. 50)

The link associations.

Type: Array of [LinkAssociation](#) (p. 94) objects

NextToken (p. 50)

The token for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetLinks

Gets information about one or more links in a specified global network.

If you specify the site ID, you cannot specify the type or provider in the same request. You can specify the type and provider in the same request.

Request Syntax

```
GET /global-networks/globalNetworkId/links?  
linkIds=LinkIds&maxResults=MaxResults&nextToken=NextToken&provider=Provider&siteId=SiteId&type=Type  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 53)

The ID of the global network.

Required: Yes

LinkIds (p. 53)

One or more link IDs. The maximum is 10.

MaxResults (p. 53)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 53)

The token for the next page of results.

Provider (p. 53)

The link provider.

SiteId (p. 53)

The ID of the site.

Type (p. 53)

The link type.

Request Body

The request does not have a request body.

Response Syntax

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

```
"Links": [
  {
    "Bandwidth": {
      "DownloadSpeed": number,
      "UploadSpeed": number
    },
    "CreatedAt": number,
    "Description": "string",
    "GlobalNetworkId": "string",
    "LinkArn": "string",
    "LinkId": "string",
    "Provider": "string",
    "SiteId": "string",
    "State": "string",
    "Tags": [
      {
        "Key": "string",
        "Value": "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.

Links (p. 53)

The links.

Type: Array of [Link \(p. 92\)](#) objects

NextToken (p. 53)

The token for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetSites

Gets information about one or more of your sites in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/sites?  
maxResults=MaxResults&nextToken=NextToken&siteIds=SiteIds HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 56)

The ID of the global network.

Required: Yes

MaxResults (p. 56)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 56)

The token for the next page of results.

SiteIds (p. 56)

One or more site IDs. The maximum is 10.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "NextToken": "string",  
  "Sites": [  
    {  
      "CreatedAt": number,  
      "Description": "string",  
      "GlobalNetworkId": "string",  
      "Location": {  
        "Address": "string",  
        "Latitude": "string",  
        "Longitude": "string"  
      },  
      "SiteArn": "string",  
      "SiteId": "string",  
      "State": "string",  
    },  
  ],  
}
```

```
    "Tags": [
      {
        "Key": "string",
        "Value": "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 for the next page of results.

Type: String

Sites (p. 56)

The sites.

Type: Array of [Site](#) (p. 96) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

GetTransitGatewayRegistrations

Gets information about the transit gateway registrations in a specified global network.

Request Syntax

```
GET /global-networks/globalNetworkId/transit-gateway-registrations?  
maxResults=MaxResults&nextToken=NextToken&transitGatewayArns=TransitGatewayArns HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 59)

The ID of the global network.

Required: Yes

MaxResults (p. 59)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 500.

NextToken (p. 59)

The token for the next page of results.

TransitGatewayArns (p. 59)

The Amazon Resource Names (ARNs) of one or more transit gateways. The maximum is 10.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "NextToken": "string",  
  "TransitGatewayRegistrations": [  
    {  
      "GlobalNetworkId": "string",  
      "State": {  
        "Code": "string",  
        "Message": "string"  
      },  
      "TransitGatewayArn": "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. 59)

The token for the next page of results.

Type: String

TransitGatewayRegistrations (p. 59)

The transit gateway registrations.

Type: Array of [TransitGatewayRegistration](#) (p. 99) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

ListTagsForResource

Lists the tags for a specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 62\)](#)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "TagList": [
    {
      "Key": "string",
      "Value": "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.

[TagList \(p. 62\)](#)

The list of tags.

Type: Array of [Tag \(p. 98\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

RegisterTransitGateway

Registers a transit gateway in your global network. The transit gateway can be in any AWS Region, but it must be owned by the same AWS account that owns the global network. You cannot register a transit gateway in more than one global network.

Request Syntax

```
POST /global-networks/globalNetworkId/transit-gateway-registrations HTTP/1.1
Content-type: application/json

{
  "TransitGatewayArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 64)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

TransitGatewayArn (p. 64)

The Amazon Resource Name (ARN) of the transit gateway. For more information, see [Resources Defined by Amazon EC2](#).

Type: String

Required: Yes

Response Syntax

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

{
  "TransitGatewayRegistration": {
    "GlobalNetworkId": "string",
    "State": {
      "Code": "string",
      "Message": "string"
    },
    "TransitGatewayArn": "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.

[TransitGatewayRegistration \(p. 64\)](#)

Information about the transit gateway registration.

Type: [TransitGatewayRegistration \(p. 99\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

TagResource

Tags a specified resource.

Request Syntax

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

{
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 67\)](#)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Tags \(p. 67\)](#)

The tags to apply to the specified resource.

Type: Array of [Tag \(p. 98\)](#) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

UntagResource

Removes tags from a specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 69)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

TagKeys (p. 69)

The tag keys to remove from the specified resource.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

UpdateDevice

Updates the details for an existing device. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/devices/deviceId HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "Location": {
    "Address": "string",
    "Latitude": "string",
    "Longitude": "string"
  },
  "Model": "string",
  "SerialNumber": "string",
  "SiteId": "string",
  "Type": "string",
  "Vendor": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

deviceId (p. 71)

The ID of the device.

Required: Yes

globalNetworkId (p. 71)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 71)

A description of the device.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Location (p. 71)

Describes a location.

Type: [Location \(p. 95\)](#) object

Required: No

Model (p. 71)

The model of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

SerialNumber (p. 71)

The serial number of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

SiteId (p. 71)

The ID of the site.

Type: String

Required: No

Type (p. 71)

The type of the device.

Type: String

Required: No

Vendor (p. 71)

The vendor of the device.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Response Syntax

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

{
  "Device": {
    "CreatedAt": number,
    "Description": "string",
    "DeviceArn": "string",
    "DeviceId": "string",
    "GlobalNetworkId": "string",
    "Location": {
      "Address": "string",
```

```
    "Latitude": "string",
    "Longitude": "string"
  },
  "Model": "string",
  "SerialNumber": "string",
  "SiteId": "string",
  "State": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Type": "string",
  "Vendor": "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.

Device (p. 72)

Information about the device.

Type: [Device \(p. 88\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

UpdateGlobalNetwork

Updates an existing global network. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId HTTP/1.1  
Content-type: application/json
```

```
{  
  "Description": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

[globalNetworkId \(p. 75\)](#)

The ID of your global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Description \(p. 75\)](#)

A description of the global network.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Response Syntax

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

```
{  
  "GlobalNetwork": {  
    "CreatedAt": number,  
    "Description": "string",  
    "GlobalNetworkArn": "string",  
    "GlobalNetworkId": "string",  
    "State": "string",  
    "Tags": [  
      {  
        "Key": "string",  
        "Value": "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.

GlobalNetwork (p. 75)

Information about the global network object.

Type: [GlobalNetwork](#) (p. 90) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 104).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

UpdateLink

Updates the details for an existing link. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/links/linkId HTTP/1.1
Content-type: application/json

{
  "Bandwidth": {
    "DownloadSpeed": number,
    "UploadSpeed": number
  },
  "Description": "string",
  "Provider": "string",
  "Type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 78)

The ID of the global network.

Required: Yes

linkId (p. 78)

The ID of the link.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 78)

The upload and download speed in Mbps.

Type: [Bandwidth](#) (p. 86) object

Required: No

Description (p. 78)

A description of the link.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Provider (p. 78)

The provider of the link.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Type (p. 78)

The type of the link.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Response Syntax

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

{
  "Link": {
    "Bandwidth": {
      "DownloadSpeed": number,
      "UploadSpeed": number
    },
    "CreatedAt": number,
    "Description": string,
    "GlobalNetworkId": string,
    "LinkArn": string,
    "LinkId": string,
    "Provider": string,
    "SiteId": string,
    "State": string,
    "Tags": [
      {
        "Key": string,
        "Value": 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.

Link (p. 79)

Information about the link.

Type: [Link \(p. 92\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ServiceQuotaExceededException

A service limit was exceeded.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

UpdateSite

Updates the information for an existing site. To remove information for any of the parameters, specify an empty string.

Request Syntax

```
PATCH /global-networks/globalNetworkId/sites/siteId HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "Location": {
    "Address": "string",
    "Latitude": "string",
    "Longitude": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 82)

The ID of the global network.

Required: Yes

siteId (p. 82)

The ID of your site.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 82)

A description of your site.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

Location (p. 82)

The site location:

- **Address**: The physical address of the site.
- **Latitude**: The latitude of the site.
- **Longitude**: The longitude of the site.

Type: [Location \(p. 95\)](#) object

Required: No

Response Syntax

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

{
  "Site": {
    "CreatedAt": number,
    "Description": string,
    "GlobalNetworkId": string,
    "Location": {
      "Address": string,
      "Latitude": string,
      "Longitude": string
    },
    "SiteArn": string,
    "SiteId": string,
    "State": string,
    "Tags": [
      {
        "Key": string,
        "Value": 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.

[Site \(p. 83\)](#)

Information about the site.

Type: [Site \(p. 96\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 104\)](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

There was a conflict processing the request. Updating or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

The request has failed due to an internal error.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource could not be found.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

The input fails to satisfy the constraints.

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 V3](#)

Data Types

The AWS Network Manager 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:

- [Bandwidth](#) (p. 86)
- [CustomerGatewayAssociation](#) (p. 87)
- [Device](#) (p. 88)
- [GlobalNetwork](#) (p. 90)
- [Link](#) (p. 92)
- [LinkAssociation](#) (p. 94)
- [Location](#) (p. 95)
- [Site](#) (p. 96)
- [Tag](#) (p. 98)
- [TransitGatewayRegistration](#) (p. 99)
- [TransitGatewayRegistrationStateReason](#) (p. 100)
- [ValidationExceptionField](#) (p. 101)

Bandwidth

Describes bandwidth information.

Contents

DownloadSpeed

Download speed in Mbps.

Type: Integer

Required: No

UploadSpeed

Upload speed in Mbps.

Type: Integer

Required: No

See Also

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

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

CustomerGatewayAssociation

Describes the association between a customer gateway, a device, and a link.

Contents

CustomerGatewayArn

The Amazon Resource Name (ARN) of the customer gateway.

Type: String

Required: No

Deviceld

The ID of the device.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

LinkId

The ID of the link.

Type: String

Required: No

State

The association state.

Type: String

Valid Values: `PENDING` | `AVAILABLE` | `DELETING` | `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 V3](#)

Device

Describes a device.

Contents

CreatedAt

The date and time that the site was created.

Type: Timestamp

Required: No

Description

The description of the device.

Type: String

Required: No

DeviceArn

The Amazon Resource Name (ARN) of the device.

Type: String

Required: No

DeviceId

The ID of the device.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

Location

The site location.

Type: [Location \(p. 95\)](#) object

Required: No

Model

The device model.

Type: String

Required: No

SerialNumber

The device serial number.

Type: String

Required: No

Siteld

The site ID.

Type: String

Required: No

State

The device state.

Type: String

Valid Values: `PENDING` | `AVAILABLE` | `DELETING` | `UPDATING`

Required: No

Tags

The tags for the device.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Type

The device type.

Type: String

Required: No

Vendor

The device vendor.

Type: String

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 V3](#)

GlobalNetwork

Describes a global network.

Contents

CreatedAt

The date and time that the global network was created.

Type: Timestamp

Required: No

Description

The description of the global network.

Type: String

Required: No

GlobalNetworkArn

The Amazon Resource Name (ARN) of the global network.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

State

The state of the global network.

Type: String

Valid Values: `PENDING` | `AVAILABLE` | `DELETING` | `UPDATING`

Required: No

Tags

The tags for the global network.

Type: Array of [Tag \(p. 98\)](#) objects

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 V3](#)

Link

Describes a link.

Contents

Bandwidth

The bandwidth for the link.

Type: [Bandwidth \(p. 86\)](#) object

Required: No

CreatedAt

The date and time that the link was created.

Type: Timestamp

Required: No

Description

The description of the link.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

LinkArn

The Amazon Resource Name (ARN) of the link.

Type: String

Required: No

LinkId

The ID of the link.

Type: String

Required: No

Provider

The provider of the link.

Type: String

Required: No

SiteId

The ID of the site.

Type: String

Required: No

State

The state of the link.

Type: String

Valid Values: PENDING | AVAILABLE | DELETING | UPDATING

Required: No

Tags

The tags for the link.

Type: Array of [Tag \(p. 98\)](#) objects

Required: No

Type

The type of the link.

Type: String

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 V3](#)

LinkAssociation

Describes the association between a device and a link.

Contents

DeviceId

The device ID for the link association.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

LinkAssociationState

The state of the association.

Type: String

Valid Values: `PENDING` | `AVAILABLE` | `DELETING` | `DELETED`

Required: No

LinkId

The ID of the link.

Type: String

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 V3](#)

Location

Describes a location.

Contents

Address

The physical address.

Type: String

Required: No

Latitude

The latitude.

Type: String

Required: No

Longitude

The longitude.

Type: String

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 V3](#)

Site

Describes a site.

Contents

CreatedAt

The date and time that the site was created.

Type: Timestamp

Required: No

Description

The description of the site.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

Location

The location of the site.

Type: [Location \(p. 95\)](#) object

Required: No

SiteArn

The Amazon Resource Name (ARN) of the site.

Type: String

Required: No

SiteId

The ID of the site.

Type: String

Required: No

State

The state of the site.

Type: String

Valid Values: PENDING | AVAILABLE | DELETING | UPDATING

Required: No

Tags

The tags for the site.

Type: Array of [Tag \(p. 98\)](#) objects

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 V3](#)

Tag

Describes a tag.

Contents

Key

The tag key.

Length Constraints: Maximum length of 128 characters.

Type: String

Required: No

Value

The tag value.

Length Constraints: Maximum length of 256 characters.

Type: String

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 V3](#)

TransitGatewayRegistration

Describes the registration of a transit gateway to a global network.

Contents

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

State

The state of the transit gateway registration.

Type: [TransitGatewayRegistrationStateReason](#) (p. 100) object

Required: No

TransitGatewayArn

The Amazon Resource Name (ARN) of the transit gateway.

Type: String

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 V3](#)

TransitGatewayRegistrationStateReason

Describes the status of a transit gateway registration.

Contents

Code

The code for the state reason.

Type: String

Valid Values: PENDING | AVAILABLE | DELETING | DELETED | FAILED

Required: No

Message

The message for the state reason.

Type: String

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 V3](#)

ValidationExceptionField

Describes a validation exception for a field.

Contents

Message

The message for the field.

Type: String

Required: Yes

Name

The name of the field.

Type: String

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 V3](#)

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400