AWS Network Manager

API Reference

API Version 2019-07-05

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.

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Actions

The following actions are supported:

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.
>
> 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. 111) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 118) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

> 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 Ruby V3

AssociateTransitGatewayConnectPeer

Associates a transit gateway Connect peer 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 transit gateway Connect peers that have been created on a transit gateway that's registered in your global network.

You cannot associate a transit gateway Connect peer with more than one device and link.

Request Syntax

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

{
   "DeviceId": "string",
   "LinkId": "string",
   "TransitGatewayConnectPeerArn": "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.

DeviceId (p. 9)

> The ID of the device.
>
> Type: String
>
> Required: Yes

LinkId (p. 9)

> The ID of the link.
>
> Type: String
>
> Required: No

TransitGatewayConnectPeerArn (p. 9)

> The Amazon Resource Name (ARN) of the Connect peer.
>
> Type: String
>
> Required: Yes

Response Syntax

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

{
   "TransitGatewayConnectPeerAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "string",
      "TransitGatewayConnectPeerArn": "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.

TransitGatewayConnectPeerAssociation (p. 10)

The transit gateway Connect peer association.

Type: TransitGatewayConnectPeerAssociation (p. 123) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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

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- AWS SDK for Ruby V3

CreateConnection

Creates a connection between two devices. The devices can be a physical or virtual appliance that connects to a third-party appliance in a VPC, or a physical appliance that connects to another physical appliance in an on-premises network.

Request Syntax

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

{
   "ConnectedDeviceId": "string",
   "ConnectedLinkId": "string",
   "Description": "string",
   "DeviceId": "string",
   "LinkId": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 12)

> The ID of the global network.
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

ConnectedDeviceId (p. 12)

> The ID of the second device in the connection.
>
> Type: String
>
> Required: Yes

ConnectedLinkId (p. 12)

> The ID of the link for the second device.
>
> Type: String
>
> Required: No

Description (p. 12)

> A description of the connection.

Length Constraints: Maximum length of 256 characters.

Type: String

Required: No

DeviceId (p. 12)

The ID of the first device in the connection.

Type: String

Required: Yes

LinkId (p. 12)

The ID of the link for the first device.

Type: String

Required: No

Tags (p. 12)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 122) objects

Required: No

Response Syntax

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

{
   "Connection": {
      "ConnectedDeviceId": "string",
      "ConnectedLinkId": "string",
      "ConnectionArn": "string",
      "ConnectionId": "string",
      "CreatedAt": number,
      "Description": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

Connection (p. 13)

Information about the connection.

Type: Connection (p. 109) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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

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- 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

{
    "AWSLocation": {
        "SubnetArn": "string",
        "Zone": "string"
    },
    "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. 16)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

AWSLocation (p. 16)

The AWS location of the device, if applicable. For an on-premises device, you can omit this parameter.

Type: AWSLocation (p. 107) object

Required: No

Description (p. 16)

A description of the device.

Constraints: Maximum length of 256 characters.

Type: String

Required: No

Location (p. 16)

The location of the device.

Type: Location (p. 119) object

Required: No

Model (p. 16)

The model of the device.

Constraints: Maximum length of 128 characters.

Type: String

Required: No

SerialNumber (p. 16)

The serial number of the device.

Constraints: Maximum length of 128 characters.

Type: String

Required: No

SiteId (p. 16)

The ID of the site.

Type: String

Required: No

Tags (p. 16)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 122) objects

Required: No

Type (p. 16)

The type of the device.

Type: String

Required: No

Vendor (p. 16)

The vendor of the device.

Constraints: Maximum length of 128 characters.

Type: String

Required: No

Response Syntax

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

{
    "Device": {
        "AWSLocation": {
            "SubnetArn": "string",
            "Zone": "string"
        },
        "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. 18)

Information about the device.

Type: Device (p. 112) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 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. 20)

A description of the global network.

Constraints: Maximum length of 256 characters.

Type: String

Required: No

Tags (p. 20)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 122) 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. 20)

> Information about the global network object.

> Type: GlobalNetwork (p. 114) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

> 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:

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- 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. 23)

> The ID of the global network.

> Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 23)

> The upload speed and download speed in Mbps.

> Type: Bandwidth (p. 108) object

> Required: Yes

Description (p. 23)

> A description of the link.

> Constraints: Maximum length of 256 characters.

> Type: String

> Required: No

Provider (p. 23)

> The provider of the link.

> Constraints: Maximum length of 128 characters. Cannot include the following characters: | \ ^

> Type: String

> Required: No

SiteId (p. 23)

> The ID of the site.

> Type: String

> Required: Yes

Tags (p. 23)

> The tags to apply to the resource during creation.

> Type: Array of Tag (p. 122) objects

> Required: No

Type (p. 23)

> The type of the link.

> Constraints: Maximum length of 128 characters. Cannot include the following 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. 24)

> Information about the link.
>
> Type: Link (p. 116) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

> 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

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- 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. 27)

> The ID of the global network.
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 27)

> A description of your site.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Required: No

Location (p. 27)

> 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. 119) object

Required: No

Tags (p. 27)

The tags to apply to the resource during creation.

Type: Array of Tag (p. 122) 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. 28)

Information about the site.

Type: Site (p. 120) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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

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- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteConnection

Deletes the specified connection in your global network.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

connectionId (p. 30)

> The ID of the connection.
>
> Required: Yes

globalNetworkId (p. 30)

> 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

{
   "Connection": {
      "ConnectedDeviceId": "string",
      "ConnectedLinkId": "string",
      "ConnectionArn": "string",
      "ConnectionId": "string",
      "CreatedAt": number,
      "Description": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

Connection (p. 30)

Information about the connection.

Type: Connection (p. 109) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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.

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- 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. 33)

The ID of the device.

Required: Yes

globalNetworkId (p. 33)

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": {
        "AWSLocation": {
            "SubnetArn": "string",
            "Zone": "string"
        },
        "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. 33)

> Information about the device.

> Type: Device (p. 112) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

> 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 V2
- 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. 36)

> 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. 36)

> Information about the global network.

Type: GlobalNetwork (p. 114) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 38)

>   The ID of the global network.

>   Required: Yes

linkId (p. 38)

>   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. 38)

Information about the link.

Type: Link (p. 116) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2](#)
- [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. 41)

> The ID of the global network.

> Required: Yes

siteId (p. 41)

> 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. 41)

Information about the site.

Type: Site (p. 120) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 44)

> The ID of the global network.

> Required: Yes

transitGatewayArn (p. 44)

> 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. 44)

> The transit gateway registration information.

Type: TransitGatewayRegistration (p. 124) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 77).

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. 46)

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

MaxResults (p. 46)

   The maximum number of results to return.

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

NextToken (p. 46)

   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. 46)

 Information about the global networks.

 Type: Array of GlobalNetwork (p. 114) objects

NextToken (p. 46)

 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. 129).

AccessDeniedException

 You do not have sufficient access to perform this action.

 HTTP Status Code: 403

InternalServerException

 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 V2
- 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. 49)

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

   Required: Yes

globalNetworkId (p. 49)

   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. 49)

   Information about the customer gateway association.

   Type: CustomerGatewayAssociation (p. 111) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 51)

>   The ID of the device.

>   Required: Yes

globalNetworkId (p. 51)

>   The ID of the global network.

>   Required: Yes

LinkId (p. 51)

>   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. 51)

Information about the link association.

Type: LinkAssociation (p. 118) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

DisassociateTransitGatewayConnectPeer

Disassociates a transit gateway Connect peer from a device and link.

Request Syntax

```
DELETE /global-networks/globalNetworkId/transit-gateway-connect-peer-
associations/transitGatewayConnectPeerArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 54)

> The ID of the global network.
>
> Required: Yes

transitGatewayConnectPeerArn (p. 54)

> The Amazon Resource Name (ARN) of the transit gateway Connect peer.
>
> Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "TransitGatewayConnectPeerAssociation": {
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "string",
      "State": "string",
      "TransitGatewayConnectPeerArn": "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.

TransitGatewayConnectPeerAssociation (p. 54)

> The transit gateway Connect peer association.
>
> Type: TransitGatewayConnectPeerAssociation (p. 123) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetConnections

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

Request Syntax

```
GET /global-networks/globalNetworkId/connections?
connectionIds=ConnectionIds&deviceId=DeviceId&maxResults=MaxResults&nextToken=NextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConnectionIds (p. 56)

>   One or more connection IDs.

DeviceId (p. 56)

>   The ID of the device.

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.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Connections": [
      {
         "ConnectedDeviceId": "string",
         "ConnectedLinkId": "string",
         "ConnectionArn": "string",
         "ConnectionId": "string",
         "CreatedAt": number,
         "Description": "string",
         "DeviceId": "string",
         "GlobalNetworkId": "string",
```

```
            "LinkId": "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.

Connections (p. 56)

Information about the connections.

Type: Array of Connection (p. 109) objects

NextToken (p. 56)

The token to use for the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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 V2
- 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. 59)

> One or more customer gateway Amazon Resource Names (ARNs). The maximum is 10.

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.

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. 59)

> The customer gateway associations.

> Type: Array of CustomerGatewayAssociation (p. 111) objects

NextToken (p. 59)

> 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. 129).

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

InternalServerException

> 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 V2
- 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. 62)

    One or more device IDs. The maximum is 10.

globalNetworkId (p. 62)

    The ID of the global network.

    Required: Yes

MaxResults (p. 62)

    The maximum number of results to return.

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

NextToken (p. 62)

    The token for the next page of results.

SiteId (p. 62)

    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": [
      {
         "AWSLocation": {
            "SubnetArn": "string",
            "Zone": "string"
         },
         "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. 62)

> The devices.

> Type: Array of Device (p. 112) objects

NextToken (p. 62)

> 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. 129).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> 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 V2
- 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. 65)

> The ID of the device.

globalNetworkId (p. 65)

> The ID of the global network.

> Required: Yes

LinkId (p. 65)

> The ID of the link.

MaxResults (p. 65)

> The maximum number of results to return.

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

NextToken (p. 65)

> 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. 65)

> The link associations.

> Type: Array of LinkAssociation (p. 118) objects

NextToken (p. 65)

> 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. 129).

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> 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 V2
- 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. 68)

> The ID of the global network.

> Required: Yes

LinkIds (p. 68)

> One or more link IDs. The maximum is 10.

MaxResults (p. 68)

> The maximum number of results to return.

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

NextToken (p. 68)

> The token for the next page of results.

Provider (p. 68)

> The link provider.

SiteId (p. 68)

> The ID of the site.

Type (p. 68)

> 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. 68)

> The links.
>
> Type: Array of Link (p. 116) objects

NextToken (p. 68)

> 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. 129).

AccessDeniedException

> You do not have sufficient access to perform this action.
>
> HTTP Status Code: 403

InternalServerException

> 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 V2
- 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. 71)

>   The ID of the global network.

>   Required: Yes

MaxResults (p. 71)

>   The maximum number of results to return.

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

NextToken (p. 71)

>   The token for the next page of results.

SiteIds (p. 71)

>   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. 71)

    The token for the next page of results.

    Type: String

Sites (p. 71)

    The sites.

    Type: Array of Site (p. 120) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

InternalServerException

    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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetTransitGatewayConnectPeerAssociations

Gets information about one or more of your transit gateway Connect peer associations in a global network.

Request Syntax

```
GET /global-networks/globalNetworkId/transit-gateway-connect-peer-associations?
maxResults=MaxResults&nextToken=NextToken&transitGatewayConnectPeerArns=TransitGatewayConnectPeerArns
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

globalNetworkId (p. 74)

> The ID of the global network.

> Required: Yes

MaxResults (p. 74)

> The maximum number of results to return.

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

NextToken (p. 74)

> The token for the next page of results.

TransitGatewayConnectPeerArns (p. 74)

> One or more transit gateway Connect peer Amazon Resource Names (ARNs).

Request Body

The request does not have a request body.

Response Syntax

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

{
   "NextToken": "string",
   "TransitGatewayConnectPeerAssociations": [
      {
         "DeviceId": "string",
         "GlobalNetworkId": "string",
         "LinkId": "string",
         "State": "string",
         "TransitGatewayConnectPeerArn": "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. 74)

The token to use for the next page of results.

Type: String

TransitGatewayConnectPeerAssociations (p. 74)

Information about the transit gateway Connect peer associations.

Type: Array of TransitGatewayConnectPeerAssociation (p. 123) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 77)

    The ID of the global network.

    Required: Yes

MaxResults (p. 77)

    The maximum number of results to return.

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

NextToken (p. 77)

    The token for the next page of results.

TransitGatewayArns (p. 77)

    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. 77)

The token for the next page of results.

Type: String

TransitGatewayRegistrations (p. 77)

The transit gateway registrations.

Type: Array of TransitGatewayRegistration (p. 124) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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 V2
- 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. 80)

>   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. 80)

>   The list of tags.
>
>   Type: Array of Tag (p. 122) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

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 V2
- 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. 82)

> The ID of the global network.

> Required: Yes

Request Body

The request accepts the following data in JSON format.

TransitGatewayArn (p. 82)

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

> 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. 82)

Information about the transit gateway registration.

Type: TransitGatewayRegistration (p. 124) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 85)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags (p. 85)

The tags to apply to the specified resource.

Type: Array of Tag (p. 122) 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. 129).

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

InternalServerException

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 V2
- 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. 87)

> The Amazon Resource Name (ARN) of the resource.
>
> Required: Yes

TagKeys (p. 87)

> 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. 129).

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

InternalServerException

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 V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateConnection

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

Request Syntax

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

{
    "ConnectedLinkId": "string",
    "Description": "string",
    "LinkId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

connectionId (p. 89)

> The ID of the connection.
>
> Required: Yes

globalNetworkId (p. 89)

> The ID of the global network.
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

ConnectedLinkId (p. 89)

> The ID of the link for the second device in the connection.
>
> Type: String
>
> Required: No

Description (p. 89)

> A description of the connection.
>
> Length Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Required: No

LinkId (p. 89)

> The ID of the link for the first device in the connection.

Type: String

Required: No

Response Syntax

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

{
   "Connection": {
      "ConnectedDeviceId": "string",
      "ConnectedLinkId": "string",
      "ConnectionArn": "string",
      "ConnectionId": "string",
      "CreatedAt": number,
      "Description": "string",
      "DeviceId": "string",
      "GlobalNetworkId": "string",
      "LinkId": "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.

Connection (p. 90)

Information about the connection.

Type: Connection (p. 109) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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

{
    "AWSLocation": {
        "SubnetArn": "string",
        "Zone": "string"
    },
    "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. 92)

The ID of the device.

Required: Yes

globalNetworkId (p. 92)

The ID of the global network.

Required: Yes

Request Body

The request accepts the following data in JSON format.

AWSLocation (p. 92)

The AWS location of the device, if applicable. For an on-premises device, you can omit this parameter.

Type: AWSLocation (p. 107) object

Required: No

Description (p. 92)

> A description of the device.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Required: No

Location (p. 92)

> Describes a location.
>
> Type: Location (p. 119) object
>
> Required: No

Model (p. 92)

> The model of the device.
>
> Constraints: Maximum length of 128 characters.
>
> Type: String
>
> Required: No

SerialNumber (p. 92)

> The serial number of the device.
>
> Constraints: Maximum length of 128 characters.
>
> Type: String
>
> Required: No

SiteId (p. 92)

> The ID of the site.
>
> Type: String
>
> Required: No

Type (p. 92)

> The type of the device.
>
> Type: String
>
> Required: No

Vendor (p. 92)

> The vendor of the device.
>
> Constraints: Maximum length of 128 characters.
>
> Type: String
>
> Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "Device": {
        "AWSLocation": {
            "SubnetArn": "string",
            "Zone": "string"
        },
        "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. 93)

Information about the device.

Type: Device (p. 112) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 96)

> The ID of your global network.
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 96)

> A description of the global network.
>
> 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. 96)

    Information about the global network object.

    Type: GlobalNetwork (p. 114) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

    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 V2
- 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. 99)

The ID of the global network.

Required: Yes

linkId (p. 99)

The ID of the link.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Bandwidth (p. 99)

The upload and download speed in Mbps.

Type: Bandwidth (p. 108) object

Required: No

Description (p. 99)

A description of the link.

Constraints: Maximum length of 256 characters.

Type: String

Required: No

Provider (p. 99)

The provider of the link.

Constraints: Maximum length of 128 characters.

Type: String

Required: No

Type (p. 99)

The type of the link.

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. 100)

Information about the link.

Type: Link (p. 116) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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. 103)

> The ID of the global network.
>
> Required: Yes

siteId (p. 103)

> The ID of your site.
>
> Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 103)

> A description of your site.
>
> Constraints: Maximum length of 256 characters.
>
> Type: String
>
> Required: No

Location (p. 103)

> 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. 119) 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. 104)

Information about the site.

Type: Site (p. 120) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 129).

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

InternalServerException

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 V2
- 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:

AWSLocation

Specifies a location in AWS.

Contents

SubnetArn

The Amazon Resource Name (ARN) of the subnet that the device is located in.

Type: String

Required: No

Zone

The Zone that the device is located in. Specify the ID of an Availability Zone, Local Zone, Wavelength Zone, or an Outpost.

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 V2
- AWS SDK for Ruby V3

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 V2
- AWS SDK for Ruby V3

Connection

Describes a connection.

Contents

ConnectedDeviceId

The ID of the second device in the connection.

Type: String

Required: No

ConnectedLinkId

The ID of the link for the second device in the connection.

Type: String

Required: No

ConnectionArn

The Amazon Resource Name (ARN) of the connection.

Type: String

Required: No

ConnectionId

The ID of the connection.

Type: String

Required: No

CreatedAt

The date and time that the connection was created.

Type: Timestamp

Required: No

Description

The description of the connection.

Type: String

Required: No

DeviceId

The ID of the first device in the connection.

Type: String

Required: No

GlobalNetworkId

The ID of the global network.

Type: String

Required: No

LinkId

The ID of the link for the first device in the connection.

Type: String

Required: No

State

The state of the connection.

Type: String

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

Required: No

Tags

The tags for the connection.

Type: Array of Tag (p. 122) 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 V2
- 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

DeviceId

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 V2
- AWS SDK for Ruby V3

Device

Describes a device.

Contents

AWSLocation

The AWS location of the device.

Type: AWSLocation (p. 107) object

Required: No

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. 119) object

Required: No

Model

The device model.

Type: String

Required: No

SerialNumber

The device serial number.

Type: String

Required: No

SiteId

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

Link

Describes a link.

Contents

Bandwidth

The bandwidth for the link.

Type: Bandwidth (p. 108) 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. 122) 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 V2
- 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 V2
- 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 V2
- 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. 119) 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. 122) 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 V2
- AWS SDK for Ruby V3

Tag

Describes a tag.

Contents

Key

The tag key.

Constraints: Maximum length of 128 characters.

Type: String

Required: No

Value

The tag value.

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 V2
- AWS SDK for Ruby V3

TransitGatewayConnectPeerAssociation

Describes a transit gateway Connect peer association.

Contents

DeviceId

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 state of the association.

Type: String

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

Required: No

TransitGatewayConnectPeerArn

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

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 V2
- 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. 125) 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 V2
- 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 V2](#)
- [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 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 Signature Version 4 Signing Process in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

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