aws

API Reference

# AWS Global Networks for Transit Gateways

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# AWS Global Networks for Transit Gateways: API Reference

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# Welcome

Amazon Web Services enables you to centrally manage your AWS Cloud WAN core network and your Transit Gateway network across AWS accounts, Regions, and on-premises locations.

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# Actions

The following actions are supported:

- AcceptAttachment
- AssociateConnectPeer
- AssociateCustomerGateway
- AssociateLink
- AssociateTransitGatewayConnectPeer
- CreateConnectAttachment
- CreateConnection
- CreateConnectPeer
- CreateCoreNetwork
- CreateDevice
- CreateGlobalNetwork
- CreateLink
- CreateSite
- CreateSiteToSiteVpnAttachment
- CreateTransitGatewayPeering
- CreateTransitGatewayRouteTableAttachment
- CreateVpcAttachment
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- DeleteDevice
- DeleteGlobalNetwork
- DeleteLink
- DeletePeering
- DeleteResourcePolicy

- DeleteSite
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- DescribeGlobalNetworks
- DisassociateConnectPeer
- DisassociateCustomerGateway
- DisassociateLink
- DisassociateTransitGatewayConnectPeer
- ExecuteCoreNetworkChangeSet
- GetConnectAttachment
- GetConnections
- GetConnectPeer
- GetConnectPeerAssociations
- GetCoreNetwork
- GetCoreNetworkChangeEvents
- GetCoreNetworkChangeSet
- GetCoreNetworkPolicy
- GetCustomerGatewayAssociations
- GetDevices
- GetLinkAssociations
- GetLinks
- GetNetworkResourceCounts
- GetNetworkResourceRelationships
- GetNetworkResources
- GetNetworkRoutes
- GetNetworkTelemetry
- GetResourcePolicy
- GetRouteAnalysis
- GetSites
- GetSiteToSiteVpnAttachment
- GetTransitGatewayConnectPeerAssociations

- GetTransitGatewayPeering
- GetTransitGatewayRegistrations
- GetTransitGatewayRouteTableAttachment
- GetVpcAttachment
- ListAttachments
- ListConnectPeers
- ListCoreNetworkPolicyVersions
- ListCoreNetworks
- ListOrganizationServiceAccessStatus
- ListPeerings
- ListTagsForResource
- PutCoreNetworkPolicy
- PutResourcePolicy
- RegisterTransitGateway
- RejectAttachment
- RestoreCoreNetworkPolicyVersion
- StartOrganizationServiceAccessUpdate
- StartRouteAnalysis
- TagResource
- UntagResource
- UpdateConnection
- UpdateCoreNetwork
- UpdateDevice
- UpdateGlobalNetwork
- UpdateLink
- UpdateNetworkResourceMetadata
- UpdateSite
- UpdateVpcAttachment

# AcceptAttachment

Accepts a core network attachment request.

Once the attachment request is accepted by a core network owner, the attachment is created and connected to a core network.

## Request Syntax

```
POST /attachments/attachmentId/accept HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**attachmentId**

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
```

```
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": number
   }
}
```

## Response Elements

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

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

### Attachment

The response to the attachment request.

Type: Attachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# AssociateConnectPeer

Associates a core network 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 core network Connect peers that have been created on a core network Connect attachment on a core network.

## Request Syntax

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

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

## URI Request Parameters

The request uses the following URI parameters.

### globalNetworkId

The ID of your global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ConnectPeerId

The ID of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

**DeviceId**

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

## Response Syntax

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

{
   "ConnectPeerAssociation": {
      "ConnectPeerId": "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.

**ConnectPeerAssociation**

The response to the Connect peer request.

Type: ConnectPeerAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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 or core network registered in your global network. When you register a transit gateway or core network, 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### CustomerGatewayArn

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

### DeviceId

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

### LinkId

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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**

The customer gateway association.

Type: CustomerGatewayAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### DeviceId

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

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**

The link association.

Type: LinkAssociation object

# Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**DeviceId**

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**TransitGatewayConnectPeerArn**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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**

The transit gateway Connect peer association.

Type: TransitGatewayConnectPeerAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateConnectAttachment

Creates a core network Connect attachment from a specified core network attachment.

A core network Connect attachment is a GRE-based tunnel attachment that you can use to establish a connection between a core network and an appliance. A core network Connect attachment uses an existing VPC attachment as the underlying transport mechanism.

## Request Syntax

```
POST /connect-attachments HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "CoreNetworkId": "string",
   "EdgeLocation": "string",
   "Options": {
      "Protocol": "string"
   },
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "TransportAttachmentId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network where you want to create the attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**EdgeLocation**

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: Yes

**Options**

Options for creating an attachment.

Type: ConnectAttachmentOptions object

Required: Yes

**Tags**

The list of key-value tags associated with the request.

Type: Array of Tag objects

Required: No

**TransportAttachmentId**

The ID of the attachment between the two connections.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Response Syntax

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

{
   "ConnectAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
```

```
            "UpdatedAt": number
        },
        "Options": {
            "Protocol": "string"
        },
        "TransportAttachmentId": "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.

**ConnectAttachment**

The response to a Connect attachment request.

Type: ConnectAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**ConnectedDeviceId**

The ID of the second device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**ConnectedLinkId**

The ID of the link for the second device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Description**

A description of the connection.

Length Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**DeviceId**

The ID of the first device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

**LinkId**

The ID of the link for the first device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

**Tags**

The tags to apply to the resource during creation.

Type: Array of Tag 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**

Information about the connection.

Type: Connection object

## Errors

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

**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:

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

# CreateConnectPeer

Creates a core network Connect peer for a specified core network connect attachment between a core network and an appliance. The peer address and transit gateway address must be the same IP address family (IPv4 or IPv6).

## Request Syntax

```
POST /connect-peers HTTP/1.1
Content-type: application/json

{
   "BgpOptions": {
      "PeerAsn": number
   },
   "ClientToken": "string",
   "ConnectAttachmentId": "string",
   "CoreNetworkAddress": "string",
   "InsideCidrBlocks": [ "string" ],
   "PeerAddress": "string",
   "SubnetArn": "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.

### BgpOptions

The Connect peer BGP options. This only applies only when the protocol is GRE.

Type: BgpOptions object

Required: No

**ClientToken**

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**ConnectAttachmentId**

The ID of the connection attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

**CoreNetworkAddress**

A Connect peer core network address. This only applies only when the protocol is GRE.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**InsideCidrBlocks**

The inside IP addresses used for BGP peering.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

**PeerAddress**

The Connect peer address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**SubnetArn**

The subnet ARN for the Connect peer. This only applies only when the protocol is NO_ENCAP.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

**Tags**

The tags associated with the peer request.

Type: Array of Tag objects

Required: No

## Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
```

```
                "CoreNetworkAddress": "string",
                "CoreNetworkAsn": number,
                "PeerAddress": "string",
                "PeerAsn": number
             }
          ],
          "CoreNetworkAddress": "string",
          "InsideCidrBlocks": [ "string" ],
          "PeerAddress": "string",
          "Protocol": "string"
       },
       "ConnectAttachmentId": "string",
       "ConnectPeerId": "string",
       "CoreNetworkId": "string",
       "CreatedAt": number,
       "EdgeLocation": "string",
       "State": "string",
       "SubnetArn": "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.

**ConnectPeer**

The response to the request.

Type: ConnectPeer object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateCoreNetwork

Creates a core network as part of your global network, and optionally, with a core network policy.

## Request Syntax

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

{
   "ClientToken": "string",
   "Description": "string",
   "GlobalNetworkId": "string",
   "PolicyDocument": "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.

### ClientToken

The client token associated with a core network request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### Description

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### GlobalNetworkId

The ID of the global network that a core network will be a part of.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

### PolicyDocument

The policy document for creating a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

### Tags

Key-value tags associated with a core network request.

Type: Array of Tag objects

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "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.

### CoreNetwork

Returns details about a core network.

Type: CoreNetwork object

# Errors

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

**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

**CoreNetworkPolicyException**

Describes a core network policy exception.

HTTP Status Code: 400

**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:

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

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**AWSLocation**

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

Type: AWSLocation object

Required: No

**Description**

A description of the device.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Location**

The location of the device.

Type: Location object

Required: No

**Model**

The model of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SerialNumber**

The serial number of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SiteId**

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Tags**

The tags to apply to the resource during creation.

Type: Array of Tag objects

Required: No

**Type**

The type of the device.

Type: String

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

Pattern: [\s\S]*

Required: No

**Vendor**

The vendor of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: [\s\S]*

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**

Information about the device.

Type: Device object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

A description of the global network.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### Tags

The tags to apply to the resource during creation.

Type: Array of Tag 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**

Information about the global network object.

Type: GlobalNetwork object

## Errors

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

**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:

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Bandwidth

The upload speed and download speed in Mbps.

Type: Bandwidth object

Required: Yes

### Description

A description of the link.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### Provider

The provider of the link.

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

Type: String

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

Pattern: `[\s\S]*`

Required: No

### SiteId

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

**Tags**

The tags to apply to the resource during creation.

Type: Array of Tag objects

Required: No

**Type**

The type of the link.

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

Type: String

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

Pattern: [\s\S]*

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**

Information about the link.

Type: Link object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

A description of your site.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### Location

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 object

Required: No

### Tags

The tags to apply to the resource during creation.

Type: Array of Tag 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

Information about the site.

Type: Site object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateSiteToSiteVpnAttachment

Creates an Amazon Web Services site-to-site VPN attachment on an edge location of a core network.

## Request Syntax

```
POST /site-to-site-vpn-attachments HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### CoreNetworkId

The ID of a core network where you're creating a site-to-site VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

### Tags

The tags associated with the request.

Type: Array of Tag objects

Required: No

### VpnConnectionArn

The ARN identifying the VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpn-connection\/vpn-[0-9a-f]{8,17}$`

Required: Yes

## Response Syntax

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

{
   "SiteToSiteVpnAttachment": {
      "Attachment": {
         "AttachmentId": "string",
```

```
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "VpnConnectionArn": "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.

### SiteToSiteVpnAttachment

Details about a site-to-site VPN attachment.

Type: SiteToSiteVpnAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateTransitGatewayPeering

Creates a transit gateway peering connection.

## Request Syntax

```
POST /transit-gateway-peerings HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**Tags**

The list of key-value tags associated with the request.

Type: Array of Tag objects

Required: No

**TransitGatewayArn**

The ARN of the transit gateway for the peering request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

## Response Syntax

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

{
   "TransitGatewayPeering": {
      "Peering": {
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
```

```
            "OwnerAccountId": "string",
            "PeeringId": "string",
            "PeeringType": "string",
            "ResourceArn": "string",
            "State": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "TransitGatewayArn": "string",
         "TransitGatewayPeeringAttachmentId": "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.

**TransitGatewayPeering**

Returns information about the transit gateway peering connection request.

Type: TransitGatewayPeering object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateTransitGatewayRouteTableAttachment

Creates a transit gateway route table attachment.

## Request Syntax

```
POST /transit-gateway-route-table-attachments HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### PeeringId

The ID of the peer for the

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^peering-([0-9a-f]{8,17})$`

Required: Yes

### Tags

The list of key-value tags associated with the request.

Type: Array of Tag objects

Required: No

### TransitGatewayRouteTableArn

The ARN of the transit gateway route table for the attachment request. For example, `"TransitGatewayRouteTableArn": "arn:aws:ec2:us-west-2:123456789012:transit-gateway-route-table/tgw-rtb-9876543210123456"`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

## Response Syntax

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

{
   "TransitGatewayRouteTableAttachment": {
      "Attachment": {
         "AttachmentId": "string",
```

```
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "PeeringId": "string",
      "TransitGatewayRouteTableArn": "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.

### TransitGatewayRouteTableAttachment

The route table associated with the create transit gateway route table attachment request.

Type: TransitGatewayRouteTableAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# CreateVpcAttachment

Creates a VPC attachment on an edge location of a core network.

## Request Syntax

```
POST /vpc-attachments HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "CoreNetworkId": "string",
   "Options": {
      "ApplianceModeSupport": boolean,
      "Ipv6Support": boolean
   },
   "SubnetArns": [ "string" ],
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "VpcArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network for the VPC attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**Options**

Options for the VPC attachment.

Type: VpcOptions object

Required: No

**SubnetArns**

The subnet ARN of the VPC attachment.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: Yes

**Tags**

The key-value tags associated with the request.

Type: Array of Tag objects

Required: No

**VpcArn**

The ARN of the VPC.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpc\/vpc-[0-9a-f]{8,17}$`

Required: Yes

## Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
```

```
         "UpdatedAt": number
      },
      "Options": {
         "ApplianceModeSupport": boolean,
         "Ipv6Support": boolean
      },
      "SubnetArns": [ "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.

**VpcAttachment**

Provides details about the VPC attachment.

Type: VpcAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# DeleteAttachment

Deletes an attachment. Supports all attachment types.

## Request Syntax

```
DELETE /attachments/attachmentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the attachment to delete.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
```

```
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": number
   }
}
```


## Response Elements

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

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

### Attachment

Information about the deleted attachment.

Type: Attachment object

## Errors

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

### 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 v2
- AWS SDK for Java V2

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

# 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**

The ID of the connection.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Information about the connection.

Type: Connection object

## Errors

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

### 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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

# DeleteConnectPeer

Deletes a Connect peer.

## Request Syntax

```
DELETE /connect-peers/connectPeerId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### connectPeerId

The ID of the deleted Connect peer.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
               "CoreNetworkAddress": "string",
               "CoreNetworkAsn": number,
               "PeerAddress": "string",
               "PeerAsn": number
```

```
            }
         ],
         "CoreNetworkAddress": "string",
         "InsideCidrBlocks": [ "string" ],
         "PeerAddress": "string",
         "Protocol": "string"
      },
      "ConnectAttachmentId": "string",
      "ConnectPeerId": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "State": "string",
      "SubnetArn": "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.

**ConnectPeer**

Information about the deleted Connect peer.

Type: ConnectPeer object

## Errors

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

**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 v2
- AWS SDK for Java V2

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

# DeleteCoreNetwork

Deletes a core network along with all core network policies. This can only be done if there are no attachments on a core network.

## Request Syntax

```
DELETE /core-networks/coreNetworkId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### coreNetworkId

The network ID of the deleted core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
```

```
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "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.

**CoreNetwork**

Information about the deleted core network.

Type: CoreNetwork object

## Errors

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

**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 v2
- AWS SDK for Java V2

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

# DeleteCoreNetworkPolicyVersion

Deletes a policy version from a core network. You can't delete the current LIVE policy.

## Request Syntax

```
DELETE /core-networks/coreNetworkId/core-network-policy-versions/policyVersionId
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network for the deleted policy.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**policyVersionId**

The version ID of the deleted policy.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworkPolicy": {
```

```
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": number
   }
}
```

## Response Elements

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

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

**CoreNetworkPolicy**

Returns information about the deleted policy version.

Type: CoreNetworkPolicy object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Information about the device.

Type: Device object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# DeleteGlobalNetwork

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

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### globalNetworkId

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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**

Information about the global network.

Type: GlobalNetwork object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**linkId**

The ID of the link.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Information about the link.

Type: Link object

## Errors

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

### 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 v2
- AWS SDK for Java V2

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

# DeletePeering

Deletes an existing peering connection.

## Request Syntax

```
DELETE /peerings/peeringId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**peeringId**

The ID of the peering connection to delete.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^peering-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "Peering": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
      "PeeringId": "string",
      "PeeringType": "string",
```

```
      "ResourceArn": "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.

**Peering**

Information about a deleted peering connection.

Type: Peering object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# DeleteResourcePolicy

Deletes a resource policy for the specified resource. This revokes the access of the principals specified in the resource policy.

## Request Syntax

```
DELETE /resource-policy/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

The ARN of the policy to delete.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

**AccessDeniedException**

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**siteId**

The ID of the site.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Information about the site.

Type: Site object

## Errors

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

**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 v2
- AWS SDK for Java V2

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

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**transitGatewayArn**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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**

The transit gateway registration information.

Type: TransitGatewayRegistration object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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.

## 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**

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

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## 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**

Information about the global networks.

Type: Array of GlobalNetwork objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# DisassociateConnectPeer

Disassociates a core network Connect peer from a device and a link.

## Request Syntax

```
DELETE /global-networks/globalNetworkId/connect-peer-associations/connectPeerId
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**connectPeerId**

The ID of the Connect peer to disassociate from a device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
   "ConnectPeerAssociation": {
      "ConnectPeerId": "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.

**ConnectPeerAssociation**

Describes the Connect peer association.

Type: ConnectPeerAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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**

Information about the customer gateway association.

Type: CustomerGatewayAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: Yes

**LinkId**

The ID of the link.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

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**

Information about the link association.

Type: LinkAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**transitGatewayConnectPeerArn**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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**

The transit gateway Connect peer association.

Type: TransitGatewayConnectPeerAssociation object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ExecuteCoreNetworkChangeSet

Executes a change set on your core network. Deploys changes globally based on the policy submitted..

## Request Syntax

```
POST /core-networks/coreNetworkId/core-network-change-sets/policyVersionId/execute
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**policyVersionId**

The ID of the policy version.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

**AccessDeniedException**

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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetConnectAttachment

Returns information about a core network Connect attachment.

## Request Syntax

```
GET /connect-attachments/attachmentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "ConnectAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
```

```
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "Options": {
         "Protocol": "string"
      },
      "TransportAttachmentId": "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.

### ConnectAttachment

Details about the Connect attachment.

Type: ConnectAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

One or more connection IDs.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**DeviceId**

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## 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**

Information about the connections.

Type: Array of Connection objects

**NextToken**

The token to use for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetConnectPeer

Returns information about a core network Connect peer.

## Request Syntax

```
GET /connect-peers/connectPeerId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**connectPeerId**

The ID of the Connect peer.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "ConnectPeer": {
      "Configuration": {
         "BgpConfigurations": [
            {
               "CoreNetworkAddress": "string",
               "CoreNetworkAsn": number,
               "PeerAddress": "string",
               "PeerAsn": number
```

```
            }
         ],
         "CoreNetworkAddress": "string",
         "InsideCidrBlocks": [ "string" ],
         "PeerAddress": "string",
         "Protocol": "string"
      },
      "ConnectAttachmentId": "string",
      "ConnectPeerId": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "State": "string",
      "SubnetArn": "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.

**ConnectPeer**

Returns information about a core network Connect peer.

Type: ConnectPeer object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetConnectPeerAssociations

Returns information about a core network Connect peer associations.

## Request Syntax

```
GET /global-networks/globalNetworkId/connect-peer-associations?
connectPeerIds=ConnectPeerIds&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**ConnectPeerIds**

The IDs of the Connect peers.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "ConnectPeerAssociations": [
      {
         "ConnectPeerId": "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.

**ConnectPeerAssociations**

Displays a list of Connect peer associations.

Type: Array of ConnectPeerAssociation objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetCoreNetwork

Returns information about the LIVE policy for a core network.

## Request Syntax

```
GET /core-networks/coreNetworkId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### coreNetworkId

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
            "Asn": number,
            "EdgeLocation": "string",
```

```
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "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.

**CoreNetwork**

Details about a core network.

Type: CoreNetwork object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetCoreNetworkChangeEvents

Returns information about a core network change event.

## Request Syntax

```
GET /core-networks/coreNetworkId/core-network-change-events/policyVersionId?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**policyVersionId**

The ID of the policy version.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworkChangeEvents": [
      {
         "Action": "string",
         "EventTime": number,
         "IdentifierPath": "string",
         "Status": "string",
         "Type": "string",
         "Values": {
            "AttachmentId": "string",
            "Cidr": "string",
            "EdgeLocation": "string",
            "SegmentName": "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.

**CoreNetworkChangeEvents**

The response to `GetCoreNetworkChangeEventsRequest`.

Type: Array of CoreNetworkChangeEvent objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetCoreNetworkChangeSet

Returns a change set between the LIVE core network policy and a submitted policy.

## Request Syntax

```
GET /core-networks/coreNetworkId/core-network-change-sets/policyVersionId?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**policyVersionId**

The ID of the policy version.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworkChanges": [
      {
         "Action": "string",
         "Identifier": "string",
         "IdentifierPath": "string",
         "NewValues": {
            "Asn": number,
            "Cidr": "string",
            "DestinationIdentifier": "string",
            "EdgeLocations": [ "string" ],
            "InsideCidrBlocks": [ "string" ],
            "SegmentName": "string",
            "SharedSegments": [ "string" ]
         },
         "PreviousValues": {
            "Asn": number,
            "Cidr": "string",
            "DestinationIdentifier": "string",
            "EdgeLocations": [ "string" ],
            "InsideCidrBlocks": [ "string" ],
            "SegmentName": "string",
            "SharedSegments": [ "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.

**CoreNetworkChanges**

Describes a core network changes.

Type: Array of CoreNetworkChange objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetCoreNetworkPolicy

Returns details about a core network policy. You can get details about your current live policy or any previous policy version.

## Request Syntax

```
GET /core-networks/coreNetworkId/core-network-policy?
alias=Alias&policyVersionId=PolicyVersionId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**Alias**

The alias of a core network policy

Valid Values: `LIVE | LATEST`

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**PolicyVersionId**

The ID of a core network policy version.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "CoreNetworkPolicy": {
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": number
   }
}
```

## Response Elements

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

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

**CoreNetworkPolicy**

The details about a core network policy.

Type: CoreNetworkPolicy object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## 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**

The customer gateway associations.

Type: Array of CustomerGatewayAssociation objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

One or more device IDs. The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**SiteId**

The ID of the site.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

## 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**

The devices.

Type: Array of Device objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**LinkId**

The ID of the link.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## 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**

The link associations.

Type: Array of LinkAssociation objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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=
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**LinkIds**

One or more link IDs. The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: [\s\S]*

**Provider**

The link provider.

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

Pattern: [\s\S]*

**SiteId**

The ID of the site.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

**Type**

The link type.

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

Pattern: [\s\S]*

## 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**

The links.

Type: Array of Link objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# GetNetworkResourceCounts

Gets the count of network resources, by resource type, for the specified global network.

## Request Syntax

```
GET /global-networks/globalNetworkId/network-resource-count?
maxResults=MaxResults&nextToken=NextToken&resourceType=ResourceType HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**ResourceType**

The resource type.

The following are the supported resource types for AWS Direct Connect:

- dxcon

- dx-gateway
- dx-vif

The following are the supported resource types for Network Manager:

- attachment
- connect-peer
- connection
- core-network
- device
- link
- peering
- site

The following are the supported resource types for Amazon VPC:

- customer-gateway
- transit-gateway
- transit-gateway-attachment
- transit-gateway-connect-peer
- transit-gateway-route-table
- vpn-connection

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

Pattern: [\s\S]*

## Request Body

The request does not have a request body.

## Response Syntax

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

{
```

```
   "NetworkResourceCounts": [
      {
         "Count": number,
         "ResourceType": "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.

**NetworkResourceCounts**

The count of resources.

Type: Array of NetworkResourceCount objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetNetworkResourceRelationships

Gets the network resource relationships for the specified global network.

## Request Syntax

```
GET /global-networks/globalNetworkId/network-resource-relationships?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextT
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**AccountId**

The AWS account ID.

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

**AwsRegion**

The AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**RegisteredGatewayArn**

The ARN of the registered gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceArn**

The ARN of the gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceType**

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- `attachment`

- connect-peer
- connection
- core-network
- device
- link
- peering
- site

The following are the supported resource types for Amazon VPC:

- customer-gateway
- transit-gateway
- transit-gateway-attachment
- transit-gateway-connect-peer
- transit-gateway-route-table
- vpn-connection

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

Pattern: [\s\S]*

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "NextToken": "string",
   "Relationships": [
      {
         "From": "string",
         "To": "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**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**Relationships**

The resource relationships.

Type: Array of Relationship objects

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetNetworkResources

Describes the network resources for the specified global network.

The results include information from the corresponding Describe call for the resource, minus any sensitive information such as pre-shared keys.

## Request Syntax

```
GET /global-networks/globalNetworkId/network-resources?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextT
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**AccountId**

The AWS account ID.

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

**AwsRegion**

The AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**RegisteredGatewayArn**

The ARN of the gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceArn**

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceType**

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- attachment
- connect-peer
- connection
- core-network
- device
- link
- peering
- site

The following are the supported resource types for Amazon VPC:

- customer-gateway
- transit-gateway
- transit-gateway-attachment
- transit-gateway-connect-peer
- transit-gateway-route-table
- vpn-connection

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

Pattern: [\s\S]*

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "NetworkResources": [
      {
         "AccountId": "string",
```

```
         "AwsRegion": "string",
         "CoreNetworkId": "string",
         "Definition": "string",
         "DefinitionTimestamp": number,
         "Metadata": {
            "string" : "string"
         },
         "RegisteredGatewayArn": "string",
         "ResourceArn": "string",
         "ResourceId": "string",
         "ResourceType": "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.

**NetworkResources**

The network resources.

Type: Array of NetworkResource objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2

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

# GetNetworkRoutes

Gets the network routes of the specified global network.

## Request Syntax

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

{
   "DestinationFilters": {
      "string" : [ "string" ]
   },
   "ExactCidrMatches": [ "string" ],
   "LongestPrefixMatches": [ "string" ],
   "PrefixListIds": [ "string" ],
   "RouteTableIdentifier": {
      "CoreNetworkSegmentEdge": {
         "CoreNetworkId": "string",
         "EdgeLocation": "string",
         "SegmentName": "string"
      },
      "TransitGatewayRouteTableArn": "string"
   },
   "States": [ "string" ],
   "SubnetOfMatches": [ "string" ],
   "SupernetOfMatches": [ "string" ],
   "Types": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### globalNetworkId

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**DestinationFilters**

Filter by route table destination. Possible Values: TRANSIT_GATEWAY_ATTACHMENT_ID, RESOURCE_ID, or RESOURCE_TYPE.

Type: String to array of strings map

Key Length Constraints: Maximum length of 128.

Key Pattern: `^[0-9a-zA-Z\.-]*$`

Length Constraints: Maximum length of 255.

Pattern: `^[0-9a-zA-Z\*\.\\/\?-]*$`

Required: No

**ExactCidrMatches**

An exact CIDR block.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

**LongestPrefixMatches**

The most specific route that matches the traffic (longest prefix match).

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

### PrefixListIds

The IDs of the prefix lists.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

### RouteTableIdentifier

The ID of the route table.

Type: RouteTableIdentifier object

Required: Yes

### States

The route states.

Type: Array of strings

Valid Values: `ACTIVE | BLACKHOLE`

Required: No

### SubnetOfMatches

The routes with a subnet that match the specified CIDR filter.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

### SupernetOfMatches

The routes with a CIDR that encompasses the CIDR filter. Example: If you specify 10.0.1.0/30, then the result returns 10.0.1.0/29.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

**Types**

The route types.

Type: Array of strings

Valid Values: `PROPAGATED | STATIC`

Required: No

## Response Syntax

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

{
   "CoreNetworkSegmentEdge": {
      "CoreNetworkId": "string",
      "EdgeLocation": "string",
      "SegmentName": "string"
   },
   "NetworkRoutes": [
      {
         "DestinationCidrBlock": "string",
         "Destinations": [
            {
               "CoreNetworkAttachmentId": "string",
               "EdgeLocation": "string",
               "ResourceId": "string",
               "ResourceType": "string",
               "SegmentName": "string",
               "TransitGatewayAttachmentId": "string"
            }
         ],
         "PrefixListId": "string",
```

```
            "State": "string",
            "Type": "string"
        }
    ],
    "RouteTableArn": "string",
    "RouteTableTimestamp": number,
    "RouteTableType": "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.

**CoreNetworkSegmentEdge**

Describes a core network segment edge.

Type: CoreNetworkSegmentEdgeIdentifier object

**NetworkRoutes**

The network routes.

Type: Array of NetworkRoute objects

**RouteTableArn**

The ARN of the route table.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**RouteTableTimestamp**

The route table creation time.

Type: Timestamp

**RouteTableType**

The route table type.

Type: String

Valid Values: `TRANSIT_GATEWAY_ROUTE_TABLE | CORE_NETWORK_SEGMENT`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetNetworkTelemetry

Gets the network telemetry of the specified global network.

## Request Syntax

```
GET /global-networks/globalNetworkId/network-telemetry?
accountId=AccountId&awsRegion=AwsRegion&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextT
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**AccountId**

The AWS account ID.

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

**AwsRegion**

The AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**RegisteredGatewayArn**

The ARN of the gateway.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceArn**

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

**ResourceType**

The resource type. The following are the supported resource types:

- `connect-peer`
- `transit-gateway-connect-peer`
- `vpn-connection`

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

Pattern: `[\s\S]*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "NetworkTelemetry": [
      {
         "AccountId": "string",
         "Address": "string",
         "AwsRegion": "string",
         "CoreNetworkId": "string",
         "Health": {
            "Status": "string",
            "Timestamp": number,
            "Type": "string"
         },
         "RegisteredGatewayArn": "string",
         "ResourceArn": "string",
         "ResourceId": "string",
         "ResourceType": "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.

**NetworkTelemetry**

The network telemetry.

Type: Array of NetworkTelemetry objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetResourcePolicy

Returns information about a resource policy.

## Request Syntax

```
GET /resource-policy/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "PolicyDocument": "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.

**PolicyDocument**

The resource policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetRouteAnalysis

Gets information about the specified route analysis.

## Request Syntax

```
GET /global-networks/globalNetworkId/route-analyses/routeAnalysisId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**routeAnalysisId**

The ID of the route analysis.

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

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "RouteAnalysis": {
```

```
      "Destination": {
         "IpAddress": "string",
         "TransitGatewayArn": "string",
         "TransitGatewayAttachmentArn": "string"
      },
      "ForwardPath": {
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
         "Path": [
            {
               "DestinationCidrBlock": "string",
               "Resource": {
                  "Definition": "string",
                  "IsMiddlebox": boolean,
                  "NameTag": "string",
                  "RegisteredGatewayArn": "string",
                  "ResourceArn": "string",
                  "ResourceType": "string"
               },
               "Sequence": number
            }
         ]
      },
      "GlobalNetworkId": "string",
      "IncludeReturnPath": boolean,
      "OwnerAccountId": "string",
      "ReturnPath": {
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
         "Path": [
            {
               "DestinationCidrBlock": "string",
               "Resource": {
                  "Definition": "string",
```

```
                  "IsMiddlebox": boolean,
                  "NameTag": "string",
                  "RegisteredGatewayArn": "string",
                  "ResourceArn": "string",
                  "ResourceType": "string"
               },
               "Sequence": number
            }
         ]
      },
      "RouteAnalysisId": "string",
      "Source": {
         "IpAddress": "string",
         "TransitGatewayArn": "string",
         "TransitGatewayAttachmentArn": "string"
      },
      "StartTimestamp": number,
      "Status": "string",
      "UseMiddleboxes": boolean
   }
}
```

## 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.

### RouteAnalysis

The route analysis.

Type: RouteAnalysis object

## Errors

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

### 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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**SiteIds**

One or more site IDs. The maximum is 10.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

## 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**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**Sites**

The sites.

Type: Array of Site objects

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetSiteToSiteVpnAttachment

Returns information about a site-to-site VPN attachment.

## Request Syntax

```
GET /site-to-site-vpn-attachments/attachmentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**attachmentId**

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "SiteToSiteVpnAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
```

```
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "VpnConnectionArn": "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.

**SiteToSiteVpnAttachment**

Describes the site-to-site attachment.

Type: SiteToSiteVpnAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# 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=TransitGatewayConnectPe
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**TransitGatewayConnectPeerArns**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [\s\S]*

## 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**

The token to use for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: [\s\S]*

**TransitGatewayConnectPeerAssociations**

Information about the transit gateway Connect peer associations.

Type: Array of TransitGatewayConnectPeerAssociation objects

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetTransitGatewayPeering

Returns information about a transit gateway peer.

## Request Syntax

```
GET /transit-gateway-peerings/peeringId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**peeringId**

The ID of the peering request.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^peering-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "TransitGatewayPeering": {
      "Peering": {
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "PeeringId": "string",
```

```
         "PeeringType": "string",
         "ResourceArn": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "TransitGatewayArn": "string",
      "TransitGatewayPeeringAttachmentId": "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.

**TransitGatewayPeering**

Returns information about a transit gateway peering.

Type: TransitGatewayPeering object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**TransitGatewayArns**

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

## 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**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**TransitGatewayRegistrations**

The transit gateway registrations.

Type: Array of TransitGatewayRegistration objects

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# GetTransitGatewayRouteTableAttachment

Returns information about a transit gateway route table attachment.

## Request Syntax

```
GET /transit-gateway-route-table-attachments/attachmentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the transit gateway route table attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "TransitGatewayRouteTableAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
```

```
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "PeeringId": "string",
      "TransitGatewayRouteTableArn": "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.

**TransitGatewayRouteTableAttachment**

Returns information about the transit gateway route table attachment.

Type: TransitGatewayRouteTableAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

# GetVpcAttachment

Returns information about a VPC attachment.

## Request Syntax

```
GET /vpc-attachments/attachmentId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
```

```
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "Options": {
         "ApplianceModeSupport": boolean,
         "Ipv6Support": boolean
      },
      "SubnetArns": [ "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.

### VpcAttachment

Returns details about a VPC attachment.

Type: VpcAttachment object

## Errors

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

**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 v2

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

# ListAttachments

Returns a list of core network attachments.

## Request Syntax

```
GET /attachments?
attachmentType=AttachmentType&coreNetworkId=CoreNetworkId&edgeLocation=EdgeLocation&maxResults=
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**AttachmentType**

The type of attachment.

Valid Values: `CONNECT | SITE_TO_SITE_VPN | VPC | TRANSIT_GATEWAY_ROUTE_TABLE`

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**EdgeLocation**

The Region where the edge is located.

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**State**

The state of the attachment.

Valid Values: `REJECTED | PENDING_ATTACHMENT_ACCEPTANCE | CREATING | FAILED | AVAILABLE | UPDATING | PENDING_NETWORK_UPDATE | PENDING_TAG_ACCEPTANCE | DELETING`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "Attachments": [
      {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
```

```
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      }
   ],
   "NextToken": "string"
}
```

## Response Elements

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

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

**Attachments**

Describes the list of attachments.

Type: Array of Attachment objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ListConnectPeers

Returns a list of core network Connect peers.

## Request Syntax

```
GET /connect-peers?
connectAttachmentId=ConnectAttachmentId&coreNetworkId=CoreNetworkId&maxResults=MaxResults&nextT
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**ConnectAttachmentId**

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: [\s\S]*

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "ConnectPeers": [
      {
         "ConnectAttachmentId": "string",
         "ConnectPeerId": "string",
         "ConnectPeerState": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "SubnetArn": "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.

### ConnectPeers

Describes the Connect peers.

Type: Array of ConnectPeerSummary objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ListCoreNetworkPolicyVersions

Returns a list of core network policy versions.

## Request Syntax

```
GET /core-networks/coreNetworkId/core-network-policy-versions?
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworkPolicyVersions": [
      {
         "Alias": "string",
         "ChangeSetState": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "Description": "string",
         "PolicyVersionId": number
      }
   ],
   "NextToken": "string"
}
```

## Response Elements

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

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

**CoreNetworkPolicyVersions**

Describes core network policy versions.

Type: Array of CoreNetworkPolicyVersion objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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 v2

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

# ListCoreNetworks

Returns a list of owned and shared core networks.

## Request Syntax

```
GET /core-networks?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworks": [
      {
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "Description": "string",
```

```
         "GlobalNetworkId": "string",
         "OwnerAccountId": "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.

**CoreNetworks**

Describes the list of core networks.

Type: Array of CoreNetworkSummary objects

**NextToken**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ListOrganizationServiceAccessStatus

Gets the status of the Service Linked Role (SLR) deployment for the accounts in a given Amazon Web Services Organization.

## Request Syntax

```
GET /organizations/service-access?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "NextToken": "string",
   "OrganizationStatus": {
      "AccountStatusList": [
         {
```

```
            "AccountId": "string",
            "SLRDeploymentStatus": "string"
         }
      ],
      "OrganizationAwsServiceAccessStatus": "string",
      "OrganizationId": "string",
      "SLRDeploymentStatus": "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**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**OrganizationStatus**

Displays the status of an Amazon Web Services Organization.

Type: OrganizationStatus object

## Errors

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

## See Also

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

- AWS Command Line Interface

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ListPeerings

Lists the peerings for a core network.

## Request Syntax

```
GET /peerings?
coreNetworkId=CoreNetworkId&edgeLocation=EdgeLocation&maxResults=MaxResults&nextToken=NextToken
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**CoreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

**EdgeLocation**

Returns a list edge locations for the

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

**MaxResults**

The maximum number of results to return.

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

**NextToken**

The token for the next page of results.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**PeeringType**

Returns a list of a peering requests.

Valid Values: `TRANSIT_GATEWAY`

**State**

Returns a list of the peering request states.

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "NextToken": "string",
   "Peerings": [
      {
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "PeeringId": "string",
         "PeeringType": "string",
         "ResourceArn": "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**

The token for the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `[\s\S]*`

**Peerings**

Lists the transit gateway peerings for the `ListPeerings` request.

Type: Array of Peering objects

## Errors

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

**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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# ListTagsForResource

Lists 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**

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

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**

The list of tags.

Type: Array of Tag objects

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# PutCoreNetworkPolicy

Creates a new, immutable version of a core network policy. A subsequent change set is created showing the differences between the LIVE policy and the submitted policy.

## Request Syntax

```
POST /core-networks/coreNetworkId/core-network-policy HTTP/1.1
Content-type: application/json

{
   "ClientToken": "string",
   "Description": "string",
   "LatestVersionId": number,
   "PolicyDocument": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### coreNetworkId

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ClientToken

The client token associated with the request.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Description**

a core network policy description.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**LatestVersionId**

The ID of a core network policy.

Type: Integer

Required: No

**PolicyDocument**

The policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

## Response Syntax

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

{
   "CoreNetworkPolicy": {
```

```
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": number
   }
}
```

## Response Elements

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

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

**CoreNetworkPolicy**

Describes the changed core network policy.

Type: CoreNetworkPolicy object

## Errors

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

**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

**CoreNetworkPolicyException**

Describes a core network policy exception.

HTTP Status Code: 400

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

# PutResourcePolicy

Creates or updates a resource policy.

## Request Syntax

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

{
   "PolicyDocument": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The ARN of the resource policy.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### PolicyDocument

The JSON resource policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: [\s\S]*

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

**AccessDeniedException**

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:

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

# RegisterTransitGateway

Registers a transit gateway in your global network. Not all Regions support transit gateways for global networks. For a list of the supported Regions, see Region Availability in the *AWS Transit Gateways for Global Networks User Guide*. The transit gateway can be in any of the supported AWS Regions, 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

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### TransitGatewayArn

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

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**

Information about the transit gateway registration.

Type: TransitGatewayRegistration object

## Errors

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

**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 v2
- AWS SDK for Java V2

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

# RejectAttachment

Rejects a core network attachment request.

## Request Syntax

```
POST /attachments/attachmentId/reject HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "Attachment": {
      "AttachmentId": "string",
      "AttachmentPolicyRuleNumber": number,
      "AttachmentType": "string",
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "EdgeLocation": "string",
      "OwnerAccountId": "string",
```

```
      "ProposedSegmentChange": {
         "AttachmentPolicyRuleNumber": number,
         "SegmentName": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ]
      },
      "ResourceArn": "string",
      "SegmentName": "string",
      "State": "string",
      "Tags": [
         {
            "Key": "string",
            "Value": "string"
         }
      ],
      "UpdatedAt": number
   }
}
```

## Response Elements

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

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

### Attachment

Describes the rejected attachment request.

Type: Attachment object

## Errors

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

#### 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 v2
- AWS SDK for Java V2

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

# RestoreCoreNetworkPolicyVersion

Restores a previous policy version as a new, immutable version of a core network policy. A subsequent change set is created showing the differences between the LIVE policy and restored policy.

## Request Syntax

```
POST /core-networks/coreNetworkId/core-network-policy-versions/policyVersionId/restore
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**coreNetworkId**

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

**policyVersionId**

The ID of the policy version to restore.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
   "CoreNetworkPolicy": {
```

```
      "Alias": "string",
      "ChangeSetState": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "PolicyDocument": "string",
      "PolicyErrors": [
         {
            "ErrorCode": "string",
            "Message": "string",
            "Path": "string"
         }
      ],
      "PolicyVersionId": number
   }
}
```

## Response Elements

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

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

**CoreNetworkPolicy**

Describes the restored core network policy.

Type: CoreNetworkPolicy object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# StartOrganizationServiceAccessUpdate

Enables the Network Manager service for an Amazon Web Services Organization. This can only be called by a management account within the organization.

## Request Syntax

```
POST /organizations/service-access HTTP/1.1
Content-type: application/json

{
   "Action": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Action

The action to take for the update request. This can be either ENABLE or DISABLE.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: Yes

## Response Syntax

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

{
   "OrganizationStatus": {
      "AccountStatusList": [
```

```
            {
               "AccountId": "string",
               "SLRDeploymentStatus": "string"
            }
         ],
         "OrganizationAwsServiceAccessStatus": "string",
         "OrganizationId": "string",
         "SLRDeploymentStatus": "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.

**OrganizationStatus**

The status of the service access update request for an Amazon Web Services Organization.

Type: OrganizationStatus object

## Errors

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

**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:

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

# StartRouteAnalysis

Starts analyzing the routing path between the specified source and destination. For more information, see Route Analyzer.

## Request Syntax

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

{
   "Destination": {
      "IpAddress": "string",
      "TransitGatewayAttachmentArn": "string"
   },
   "IncludeReturnPath": boolean,
   "Source": {
      "IpAddress": "string",
      "TransitGatewayAttachmentArn": "string"
   },
   "UseMiddleboxes": boolean
}
```

## URI Request Parameters

The request uses the following URI parameters.

### globalNetworkId

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**Destination**

The destination.

Type: RouteAnalysisEndpointOptionsSpecification object

Required: Yes

**IncludeReturnPath**

Indicates whether to analyze the return path. The default is `false`.

Type: Boolean

Required: No

**Source**

The source from which traffic originates.

Type: RouteAnalysisEndpointOptionsSpecification object

Required: Yes

**UseMiddleboxes**

Indicates whether to include the location of middlebox appliances in the route analysis. The default is `false`.

Type: Boolean

Required: No

## Response Syntax

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

{
   "RouteAnalysis": {
      "Destination": {
         "IpAddress": "string",
         "TransitGatewayArn": "string",
         "TransitGatewayAttachmentArn": "string"
      },
      "ForwardPath": {
```

```
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
         "Path": [
            {
               "DestinationCidrBlock": "string",
               "Resource": {
                  "Definition": "string",
                  "IsMiddlebox": boolean,
                  "NameTag": "string",
                  "RegisteredGatewayArn": "string",
                  "ResourceArn": "string",
                  "ResourceType": "string"
               },
               "Sequence": number
            }
         ]
      },
      "GlobalNetworkId": "string",
      "IncludeReturnPath": boolean,
      "OwnerAccountId": "string",
      "ReturnPath": {
         "CompletionStatus": {
            "ReasonCode": "string",
            "ReasonContext": {
               "string" : "string"
            },
            "ResultCode": "string"
         },
         "Path": [
            {
               "DestinationCidrBlock": "string",
               "Resource": {
                  "Definition": "string",
                  "IsMiddlebox": boolean,
                  "NameTag": "string",
                  "RegisteredGatewayArn": "string",
                  "ResourceArn": "string",
                  "ResourceType": "string"
               },
```

```
                "Sequence": number
            }
         ]
      },
      "RouteAnalysisId": "string",
      "Source": {
         "IpAddress": "string",
         "TransitGatewayArn": "string",
         "TransitGatewayAttachmentArn": "string"
      },
      "StartTimestamp": number,
      "Status": "string",
      "UseMiddleboxes": boolean
   }
}
```

## 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.

**RouteAnalysis**

The route analysis.

Type: RouteAnalysis object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# TagResource

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

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Tags

The tags to apply to the specified resource.

Type: Array of Tag 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.

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# UntagResource

Removes tags from a specified resource.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

The Amazon Resource Name (ARN) of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

**TagKeys**

The tag keys to remove from the specified resource.

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

**AccessDeniedException**

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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the connection.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ConnectedLinkId

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

### Description

A description of the connection.

Length Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### LinkId

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Information about the connection.

Type: Connection object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

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

# UpdateCoreNetwork

Updates the description of a core network.

## Request Syntax

```
PATCH /core-networks/coreNetworkId HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request uses the following URI parameters.

### coreNetworkId

The ID of a core network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

The description of the update.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## Response Syntax

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

{
   "CoreNetwork": {
      "CoreNetworkArn": "string",
      "CoreNetworkId": "string",
      "CreatedAt": number,
      "Description": "string",
      "Edges": [
         {
            "Asn": number,
            "EdgeLocation": "string",
            "InsideCidrBlocks": [ "string" ]
         }
      ],
      "GlobalNetworkId": "string",
      "Segments": [
         {
            "EdgeLocations": [ "string" ],
            "Name": "string",
            "SharedSegments": [ "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.

**CoreNetwork**

Returns information about a core network update.

Type: CoreNetwork object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of the device.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**AWSLocation**

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

Type: AWSLocation object

Required: No

**Description**

A description of the device.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Location**

Describes a location.

Type: Location object

Required: No

### Model

The model of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### SerialNumber

The serial number of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### SiteId

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

### Type

The type of the device.

Type: String

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

Pattern: [\s\S]*

Required: No

**Vendor**

The vendor of the device.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: [\s\S]*

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**

Information about the device.

Type: Device object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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

The ID of your global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

A description of the global network.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

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**

Information about the global network object.

Type: GlobalNetwork object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**linkId**

The ID of the link.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**Bandwidth**

The upload and download speed in Mbps.

Type: Bandwidth object

Required: No

**Description**

A description of the link.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Provider**

The provider of the link.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Type**

The type of the link.

Constraints: Maximum length of 128 characters.

Type: String

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

Pattern: `[\s\S]*`

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**

Information about the link.

Type: Link object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# UpdateNetworkResourceMetadata

Updates the resource metadata for the specified global network.

## Request Syntax

```
PATCH /global-networks/globalNetworkId/network-resources/resourceArn/metadata HTTP/1.1
Content-type: application/json

{
   "Metadata": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**globalNetworkId**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**resourceArn**

The ARN of the resource.

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Metadata

The resource metadata.

Type: String to string map

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

Key Pattern: `[\s\S]*`

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

Value Pattern: `[\s\S]*`

Required: Yes

## Response Syntax

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

{
   "Metadata": {
      "string" : "string"
   },
   "ResourceArn": "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.

### Metadata

The updated resource metadata.

Type: String to string map

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

Key Pattern: [\s\S]*

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

Value Pattern: [\s\S]*

**ResourceArn**

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# 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**

The ID of the global network.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

**siteId**

The ID of your site.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

A description of your site.

Constraints: Maximum length of 256 characters.

Type: String

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

Pattern: `[\s\S]*`

Required: No

### Location

The site location:

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

Type: Location 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**

Information about the site.

Type: Site object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# UpdateVpcAttachment

Updates a VPC attachment.

## Request Syntax

```
PATCH /vpc-attachments/attachmentId HTTP/1.1
Content-type: application/json

{
   "AddSubnetArns": [ "string" ],
   "Options": {
      "ApplianceModeSupport": boolean,
      "Ipv6Support": boolean
   },
   "RemoveSubnetArns": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### attachmentId

The ID of the attachment.

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### AddSubnetArns

Adds a subnet ARN to the VPC attachment.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

**Options**

Additional options for updating the VPC attachment.

Type: VpcOptions object

Required: No

**RemoveSubnetArns**

Removes a subnet ARN from the attachment.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

## Response Syntax

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

{
   "VpcAttachment": {
      "Attachment": {
         "AttachmentId": "string",
         "AttachmentPolicyRuleNumber": number,
         "AttachmentType": "string",
         "CoreNetworkArn": "string",
         "CoreNetworkId": "string",
         "CreatedAt": number,
         "EdgeLocation": "string",
         "OwnerAccountId": "string",
         "ProposedSegmentChange": {
```

```
            "AttachmentPolicyRuleNumber": number,
            "SegmentName": "string",
            "Tags": [
               {
                  "Key": "string",
                  "Value": "string"
               }
            ]
         },
         "ResourceArn": "string",
         "SegmentName": "string",
         "State": "string",
         "Tags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "UpdatedAt": number
      },
      "Options": {
         "ApplianceModeSupport": boolean,
         "Ipv6Support": boolean
      },
      "SubnetArns": [ "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.

### VpcAttachment

Describes the updated VPC attachment.

Type: VpcAttachment object

## Errors

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

**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 v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

# Data Types

The AWS 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:

- AccountStatus
- Attachment
- AWSLocation
- Bandwidth
- BgpOptions
- ConnectAttachment
- ConnectAttachmentOptions
- Connection
- ConnectionHealth
- ConnectPeer
- ConnectPeerAssociation
- ConnectPeerBgpConfiguration
- ConnectPeerConfiguration
- ConnectPeerSummary
- CoreNetwork
- CoreNetworkChange
- CoreNetworkChangeEvent
- CoreNetworkChangeEventValues
- CoreNetworkChangeValues
- CoreNetworkEdge

- CoreNetworkPolicy
- CoreNetworkPolicyError
- CoreNetworkPolicyVersion
- CoreNetworkSegment
- CoreNetworkSegmentEdgeIdentifier
- CoreNetworkSummary
- CustomerGatewayAssociation
- Device
- GlobalNetwork
- Link
- LinkAssociation
- Location
- NetworkResource
- NetworkResourceCount
- NetworkResourceSummary
- NetworkRoute
- NetworkRouteDestination
- NetworkTelemetry
- OrganizationStatus
- PathComponent
- Peering
- ProposedSegmentChange
- Relationship
- RouteAnalysis
- RouteAnalysisCompletion
- RouteAnalysisEndpointOptions
- RouteAnalysisEndpointOptionsSpecification
- RouteAnalysisPath
- RouteTableIdentifier
- Site

- SiteToSiteVpnAttachment
- Tag
- TransitGatewayConnectPeerAssociation
- TransitGatewayPeering
- TransitGatewayRegistration
- TransitGatewayRegistrationStateReason
- TransitGatewayRouteTableAttachment
- ValidationExceptionField
- VpcAttachment
- VpcOptions

# AccountStatus

Describes the current status of an account within an Amazon Web Services Organization, including service-linked roles (SLRs).

## Contents

**AccountId**

The ID of an account within the Amazon Web Services Organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

**SLRDeploymentStatus**

The status of SLR deployment for the account.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Attachment

Describes a core network attachment.

## Contents

**AttachmentId**

The ID of the attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

**AttachmentPolicyRuleNumber**

The policy rule number associated with the attachment.

Type: Integer

Required: No

**AttachmentType**

The type of attachment.

Type: String

Valid Values: `CONNECT | SITE_TO_SITE_VPN | VPC | TRANSIT_GATEWAY_ROUTE_TABLE`

Required: No

**CoreNetworkArn**

The ARN of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when the attachment was created.

Type: Timestamp

Required: No

**EdgeLocation**

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**OwnerAccountId**

The ID of the attachment account owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**ProposedSegmentChange**

The attachment to move from one segment to another.

Type: ProposedSegmentChange object

Required: No

**ResourceArn**

The attachment resource ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**SegmentName**

The name of the segment attachment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**State**

The state of the attachment.

Type: String

Valid Values: `REJECTED | PENDING_ATTACHMENT_ACCEPTANCE | CREATING | FAILED | AVAILABLE | UPDATING | PENDING_NETWORK_UPDATE | PENDING_TAG_ACCEPTANCE | DELETING`

Required: No

**Tags**

The tags associated with the attachment.

Type: Array of Tag objects

Required: No

**UpdatedAt**

The timestamp when the attachment was last updated.

Type: Timestamp

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AWSLocation

Specifies a location in AWS.

## Contents

**SubnetArn**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

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

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# 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 Java V2
- AWS SDK for Ruby V3

# BgpOptions

Describes the BGP options.

## Contents

**PeerAsn**

The Peer ASN of the BGP.

Type: Long

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConnectAttachment

Describes a core network Connect attachment.

## Contents

**Attachment**

The attachment details.

Type: Attachment object

Required: No

**Options**

Options for connecting an attachment.

Type: ConnectAttachmentOptions object

Required: No

**TransportAttachmentId**

The ID of the transport attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConnectAttachmentOptions

Describes a core network Connect attachment options.

## Contents

**Protocol**

The protocol used for the attachment connection.

Type: String

Valid Values: `GRE` | `NO_ENCAP`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Connection

Describes a connection.

## Contents

**ConnectedDeviceId**

The ID of the second device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**ConnectedLinkId**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**ConnectionArn**

The Amazon Resource Name (ARN) of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**ConnectionId**

The ID of the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

**CreatedAt**

The date and time that the connection was created.

Type: Timestamp

Required: No

**Description**

The description of the connection.

Type: String

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

Pattern: [\s\S]*

Required: No

**DeviceId**

The ID of the first device in the connection.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**LinkId**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 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 Java V2
- AWS SDK for Ruby V3

# ConnectionHealth

Describes connection health.

## Contents

**Status**

The connection status.

Type: String

Valid Values: `UP` | `DOWN`

Required: No

**Timestamp**

The time the status was last updated.

Type: Timestamp

Required: No

**Type**

The connection type.

Type: String

Valid Values: `BGP` | `IPSEC`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConnectPeer

Describes a core network Connect peer.

## Contents

**Configuration**

The configuration of the Connect peer.

Type: ConnectPeerConfiguration object

Required: No

**ConnectAttachmentId**

The ID of the attachment to connect.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

**ConnectPeerId**

The ID of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when the Connect peer was created.

Type: Timestamp

Required: No

**EdgeLocation**

The Connect peer Regions where edges are located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**State**

The state of the Connect peer.

Type: String

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

Required: No

**SubnetArn**

The subnet ARN for the Connect peer. This only applies only when the protocol is NO_ENCAP.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

**Tags**

The list of key-value tags associated with the Connect peer.

Type: Array of Tag 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 Java V2
- AWS SDK for Ruby V3

# ConnectPeerAssociation

Describes a core network Connect peer association.

## Contents

**ConnectPeerId**

The ID of the Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

**DeviceId**

The ID of the device to connect to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**State**

The state of the Connect peer association.

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 Java V2
- AWS SDK for Ruby V3

# ConnectPeerBgpConfiguration

Describes a core network BGP configuration.

## Contents

**CoreNetworkAddress**

The address of a core network.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkAsn**

The ASN of the Coret Network.

Type: Long

Required: No

**PeerAddress**

The address of a core network Connect peer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**PeerAsn**

The ASN of the Connect peer.

Type: Long

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConnectPeerConfiguration

Describes a core network Connect peer configuration.

## Contents

**BgpConfigurations**

The Connect peer BGP configurations.

Type: Array of ConnectPeerBgpConfiguration objects

Required: No

**CoreNetworkAddress**

The IP address of a core network.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**InsideCidrBlocks**

The inside IP addresses used for a Connect peer configuration.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

**PeerAddress**

The IP address of the Connect peer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Protocol**

The protocol used for a Connect peer configuration.

Type: String

Valid Values: `GRE | NO_ENCAP`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConnectPeerSummary

Summary description of a Connect peer.

## Contents

**ConnectAttachmentId**

The ID of a Connect peer attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

**ConnectPeerId**

The ID of a Connect peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^connect-peer-([0-9a-f]{8,17})$`

Required: No

**ConnectPeerState**

The state of a Connect peer.

Type: String

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when a Connect peer was created.

Type: Timestamp

Required: No

**EdgeLocation**

The Region where the edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**SubnetArn**

The subnet ARN for the Connect peer summary.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

**Tags**

The list of key-value tags associated with the Connect peer summary.

Type: Array of Tag 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 Java V2
- AWS SDK for Ruby V3

# CoreNetwork

Describes a core network.

## Contents

**CoreNetworkArn**

The ARN of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when a core network was created.

Type: Timestamp

Required: No

**Description**

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Edges**

The edges within a core network.

Type: Array of CoreNetworkEdge objects

Required: No

**GlobalNetworkId**

The ID of the global network that your core network is a part of.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Segments**

The segments within a core network.

Type: Array of CoreNetworkSegment objects

Required: No

**State**

The current state of a core network.

Type: String

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

Required: No

**Tags**

The list of key-value tags associated with a core network.

Type: Array of Tag 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 Java V2
- AWS SDK for Ruby V3

# CoreNetworkChange

Details describing a core network change.

## Contents

**Action**

The action to take for a core network.

Type: String

Valid Values: `ADD | MODIFY | REMOVE`

Required: No

**Identifier**

The resource identifier.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**IdentifierPath**

Uniquely identifies the path for a change within the changeset. For example, the `IdentifierPath` for a core network segment change might be `"CORE_NETWORK_SEGMENT/us-east-1/devsegment"`.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**NewValues**

The new value for a core network

Type: CoreNetworkChangeValues object

Required: No

**PreviousValues**

The previous values for a core network.

Type: CoreNetworkChangeValues object

Required: No

**Type**

The type of change.

Type: String

Valid Values: `CORE_NETWORK_SEGMENT | CORE_NETWORK_EDGE | ATTACHMENT_MAPPING | ATTACHMENT_ROUTE_PROPAGATION | ATTACHMENT_ROUTE_STATIC | CORE_NETWORK_CONFIGURATION | SEGMENTS_CONFIGURATION | SEGMENT_ACTIONS_CONFIGURATION | ATTACHMENT_POLICIES_CONFIGURATION`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkChangeEvent

Describes a core network change event. This can be a change to a segment, attachment, route, etc.

## Contents

**Action**

The action taken for the change event.

Type: String

Valid Values: `ADD | MODIFY | REMOVE`

Required: No

**EventTime**

The timestamp for an event change in status.

Type: Timestamp

Required: No

**IdentifierPath**

Uniquely identifies the path for a change within the changeset. For example, the `IdentifierPath` for a core network segment change might be `"CORE_NETWORK_SEGMENT/us-east-1/devsegment"`.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Status**

The status of the core network change event.

Type: String

Valid Values: `NOT_STARTED | IN_PROGRESS | COMPLETE | FAILED`

Required: No

**Type**

Describes the type of change event.

Type: String

Valid Values: `CORE_NETWORK_SEGMENT | CORE_NETWORK_EDGE | ATTACHMENT_MAPPING | ATTACHMENT_ROUTE_PROPAGATION | ATTACHMENT_ROUTE_STATIC | CORE_NETWORK_CONFIGURATION | SEGMENTS_CONFIGURATION | SEGMENT_ACTIONS_CONFIGURATION | ATTACHMENT_POLICIES_CONFIGURATION`

Required: No

**Values**

Details of the change event.

Type: CoreNetworkChangeEventValues object

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkChangeEventValues

Describes a core network change event.

## Contents

**AttachmentId**

The ID of the attachment if the change event is associated with an attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

**Cidr**

For a `STATIC_ROUTE` event, this is the IP address.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**EdgeLocation**

The edge location for the core network change event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**SegmentName**

The segment name if the change event is associated with a segment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkChangeValues

Describes a core network change.

## Contents

**Asn**

The ASN of a core network.

Type: Long

Required: No

**Cidr**

The IP addresses used for a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**DestinationIdentifier**

The ID of the destination.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**EdgeLocations**

The Regions where edges are located in a core network.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: [\s\S]*

Required: No

**InsideCidrBlocks**

The inside IP addresses used for core network change values.

Type: Array of strings

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

Pattern: [\s\S]*

Required: No

**SegmentName**

The names of the segments in a core network.

Type: String

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

Pattern: [\s\S]*

Required: No

**SharedSegments**

The shared segments for a core network change value.

Type: Array of strings

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

Pattern: [\s\S]*

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkEdge

Describes a core network edge.

## Contents

**Asn**

The ASN of a core network edge.

Type: Long

Required: No

**EdgeLocation**

The Region where a core network edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**InsideCidrBlocks**

The inside IP addresses used for core network edges.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkPolicy

Describes a core network policy. You can have only one LIVE Core Policy.

## Contents

**Alias**

Whether a core network policy is the current LIVE policy or the most recently submitted policy.

Type: String

Valid Values: `LIVE | LATEST`

Required: No

**ChangeSetState**

The state of a core network policy.

Type: String

Valid Values: `PENDING_GENERATION | FAILED_GENERATION | READY_TO_EXECUTE | EXECUTING | EXECUTION_SUCCEEDED | OUT_OF_DATE`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when a core network policy was created.

Type: Timestamp

Required: No

**Description**

The description of a core network policy.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**PolicyDocument**

Describes a core network policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

**PolicyErrors**

Describes any errors in a core network policy.

Type: Array of CoreNetworkPolicyError objects

Required: No

**PolicyVersionId**

The ID of the policy version.

Type: Integer

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkPolicyError

Provides details about an error in a core network policy.

## Contents

**ErrorCode**

The error code associated with a core network policy error.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

**Message**

The message associated with a core network policy error code.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

**Path**

The JSON path where the error was discovered in the policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkPolicyVersion

Describes a core network policy version.

## Contents

**Alias**

Whether a core network policy is the current policy or the most recently submitted policy.

Type: String

Valid Values: `LIVE | LATEST`

Required: No

**ChangeSetState**

The status of the policy version change set.

Type: String

Valid Values: `PENDING_GENERATION | FAILED_GENERATION | READY_TO_EXECUTE | EXECUTING | EXECUTION_SUCCEEDED | OUT_OF_DATE`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when a core network policy version was created.

Type: Timestamp

Required: No

**Description**

The description of a core network policy version.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**PolicyVersionId**

The ID of the policy version.

Type: Integer

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkSegment

Describes a core network segment, which are dedicated routes. Only attachments within this segment can communicate with each other.

## Contents

**EdgeLocations**

The Regions where the edges are located.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**Name**

The name of a core network segment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SharedSegments**

The shared segments of a core network.

Type: Array of strings

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkSegmentEdgeIdentifier

Returns details about a core network edge.

## Contents

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**EdgeLocation**

The Region where the segment edge is located.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**SegmentName**

The name of the segment edge.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CoreNetworkSummary

Returns summary information about a core network.

## Contents

**CoreNetworkArn**

a core network ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**Description**

The description of a core network.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The global network ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**OwnerAccountId**

The ID of the account owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**State**

The state of a core network.

Type: String

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

Required: No

**Tags**

The key-value tags associated with a core network summary.

Type: Array of Tag 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 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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**DeviceId**

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 Java V2
- AWS SDK for Ruby V3

# Device

Describes a device.

## Contents

**AWSLocation**

The AWS location of the device.

Type: AWSLocation 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

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

Pattern: `[\s\S]*`

Required: No

**DeviceArn**

The Amazon Resource Name (ARN) of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**DeviceId**

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Location**

The site location.

Type: Location object

Required: No

**Model**

The device model.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SerialNumber**

The device serial number.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SiteId**

The site ID.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 objects

Required: No

**Type**

The device type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Vendor**

The device vendor.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# GlobalNetwork

Describes a global network. This is a single private network acting as a high-level container for your network objects, including an AWS-managed Core 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

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

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkArn**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 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 Java V2
- AWS SDK for Ruby V3

# Link

Describes a link.

## Contents

**Bandwidth**

The bandwidth for the link.

Type: Bandwidth 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

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

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**LinkArn**

The Amazon Resource Name (ARN) of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: [\s\S]*

Required: No

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

Required: No

**Provider**

The provider of the link.

Type: String

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

Pattern: [\s\S]*

Required: No

**SiteId**

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: [\s\S]*

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 objects

Required: No

**Type**

The type of the link.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# LinkAssociation

Describes the association between a device and a link.

## Contents

**DeviceId**

The device ID for the link association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Location

Describes a location.

## Contents

**Address**

The physical address.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Latitude**

The latitude.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Longitude**

The longitude.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# NetworkResource

Describes a network resource.

## Contents

**AccountId**

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**AwsRegion**

The AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**Definition**

Information about the resource, in JSON format. Network Manager gets this information by describing the resource using its Describe API call.

Type: String

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

Pattern: [\s\S]*

Required: No

**DefinitionTimestamp**

The time that the resource definition was retrieved.

Type: Timestamp

Required: No

**Metadata**

The resource metadata.

Type: String to string map

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

Key Pattern: [\s\S]*

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

Value Pattern: [\s\S]*

Required: No

**RegisteredGatewayArn**

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: [\s\S]*

Required: No

**ResourceArn**

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**ResourceId**

The ID of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**ResourceType**

The resource type.

The following are the supported resource types for AWS Direct Connect:

- `dxcon`
- `dx-gateway`
- `dx-vif`

The following are the supported resource types for Network Manager:

- `attachment`
- `connect-peer`
- `connection`
- `core-network`
- `device`
- `link`
- `peering`
- `site`

The following are the supported resource types for Amazon VPC:

- `customer-gateway`
- `transit-gateway`
- `transit-gateway-attachment`
- `transit-gateway-connect-peer`
- `transit-gateway-route-table`
- `vpn-connection`

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Tags**

The tags.

Type: Array of Tag 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 Java V2
- AWS SDK for Ruby V3

# NetworkResourceCount

Describes a resource count.

## Contents

**Count**

The resource count.

Type: Integer

Required: No

**ResourceType**

The resource type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# NetworkResourceSummary

Describes a network resource.

## Contents

**Definition**

Information about the resource, in JSON format. Network Manager gets this information by describing the resource using its Describe API call.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**IsMiddlebox**

Indicates whether this is a middlebox appliance.

Type: Boolean

Required: No

**NameTag**

The value for the Name tag.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**RegisteredGatewayArn**

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**ResourceArn**

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**ResourceType**

The resource type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# NetworkRoute

Describes a network route.

## Contents

**DestinationCidrBlock**

A unique identifier for the route, such as a CIDR block.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Destinations**

The destinations.

Type: Array of NetworkRouteDestination objects

Required: No

**PrefixListId**

The ID of the prefix list.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**State**

The route state. The possible values are `active` and `blackhole`.

Type: String

Valid Values: `ACTIVE | BLACKHOLE`

Required: No

**Type**

The route type. The possible values are `propagated` and `static`.

Type: String

Valid Values: `PROPAGATED | STATIC`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# NetworkRouteDestination

Describes the destination of a network route.

## Contents

**CoreNetworkAttachmentId**

The ID of a core network attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^attachment-([0-9a-f]{8,17})$`

Required: No

**EdgeLocation**

The edge location for the network destination.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**ResourceId**

The ID of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**ResourceType**

The resource type.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**SegmentName**

The name of the segment.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**TransitGatewayAttachmentId**

The ID of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# NetworkTelemetry

Describes the telemetry information for a resource.

## Contents

**AccountId**

The AWS account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**Address**

The address.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**AwsRegion**

The AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**Health**

The connection health.

Type: ConnectionHealth object

Required: No

**RegisteredGatewayArn**

The ARN of the gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**ResourceArn**

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**ResourceId**

The ID of the resource.

Type: String

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

Pattern: [\s\S]*

Required: No

**ResourceType**

The resource type.

Type: String

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

Pattern: [\s\S]*

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# OrganizationStatus

The status of an Amazon Web Services Organization and the accounts within that organization.

## Contents

**AccountStatusList**

The current service-linked role (SLR) deployment status for an Amazon Web Services Organization's accounts. This will be either `SUCCEEDED` or `IN_PROGRESS`.

Type: Array of AccountStatus objects

Required: No

**OrganizationAwsServiceAccessStatus**

The status of the organization's AWS service access. This will be `ENABLED` or `DISABLED`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

**OrganizationId**

The ID of an Amazon Web Services Organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^o-([0-9a-f]{8,17})$`

Required: No

**SLRDeploymentStatus**

The status of the SLR deployment for the account. This will be either `SUCCEEDED` or `IN_PROGRESS`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# PathComponent

Describes a path component.

## Contents

**DestinationCidrBlock**

The destination CIDR block in the route table.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Resource**

The resource.

Type: NetworkResourceSummary object

Required: No

**Sequence**

The sequence number in the path. The destination is 0.

Type: Integer

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Peering

Describes a peering connection.

## Contents

**CoreNetworkArn**

The ARN of a core network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**CoreNetworkId**

The ID of the core network for the peering request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^core-network-([0-9a-f]{8,17})$`

Required: No

**CreatedAt**

The timestamp when the attachment peer was created.

Type: Timestamp

Required: No

**EdgeLocation**

The edge location for the peer.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `[\s\S]*`

Required: No

**OwnerAccountId**

The ID of the account owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**PeeringId**

The ID of the peering attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^peering-([0-9a-f]{8,17})$`

Required: No

**PeeringType**

The type of peering. This will be `TRANSIT_GATEWAY`.

Type: String

Valid Values: `TRANSIT_GATEWAY`

Required: No

**ResourceArn**

The resource ARN of the peer.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1500.

Pattern: `[\s\S]*`

Required: No

**State**

The current state of the peering connection.

Type: String

Valid Values: `CREATING | FAILED | AVAILABLE | DELETING`

Required: No

**Tags**

The list of key-value tags associated with the peering.

Type: Array of Tag 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 Java V2
- AWS SDK for Ruby V3

# ProposedSegmentChange

Describes a proposed segment change. In some cases, the segment change must first be evaluated and accepted.

## Contents

**AttachmentPolicyRuleNumber**

The rule number in the policy document that applies to this change.

Type: Integer

Required: No

**SegmentName**

The name of the segment to change.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Tags**

The list of key-value tags that changed for the segment.

Type: Array of Tag 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 Java V2

- AWS SDK for Ruby V3

# Relationship

Describes a resource relationship.

## Contents

**From**

The ARN of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**To**

The ARN of the resource.

Type: String

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RouteAnalysis

Describes a route analysis.

## Contents

**Destination**

The destination.

Type: RouteAnalysisEndpointOptions object

Required: No

**ForwardPath**

The forward path.

Type: RouteAnalysisPath object

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**IncludeReturnPath**

Indicates whether to analyze the return path. The return path is not analyzed if the forward path analysis does not succeed.

Type: Boolean

Required: No

**OwnerAccountId**

The ID of the AWS account that created the route analysis.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[\s\S]*`

Required: No

**ReturnPath**

The return path.

Type: RouteAnalysisPath object

Required: No

**RouteAnalysisId**

The ID of the route analysis.

Type: String

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

Pattern: `[\s\S]*`

Required: No

**Source**

The source.

Type: RouteAnalysisEndpointOptions object

Required: No

**StartTimestamp**

The time that the analysis started.

Type: Timestamp

Required: No

**Status**

The status of the route analysis.

Type: String

Valid Values: `RUNNING | COMPLETED | FAILED`

Required: No

**UseMiddleboxes**

Indicates whether to include the location of middlebox appliances in the route analysis.

Type: Boolean

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RouteAnalysisCompletion

Describes the status of an analysis at completion.

## Contents

**ReasonCode**

The reason code. Available only if a connection is not found.

- BLACKHOLE_ROUTE_FOR_DESTINATION_FOUND - Found a black hole route with the destination CIDR block.
- CYCLIC_PATH_DETECTED - Found the same resource multiple times while traversing the path.
- INACTIVE_ROUTE_FOR_DESTINATION_FOUND - Found an inactive route with the destination CIDR block.
- MAX_HOPS_EXCEEDED - Analysis exceeded 64 hops without finding the destination.
- ROUTE_NOT_FOUND - Cannot find a route table with the destination CIDR block.
- TGW_ATTACH_ARN_NO_MATCH - Found an attachment, but not with the correct destination ARN.
- TGW_ATTACH_NOT_FOUND - Cannot find an attachment.
- TGW_ATTACH_NOT_IN_TGW - Found an attachment, but not to the correct transit gateway.
- TGW_ATTACH_STABLE_ROUTE_TABLE_NOT_FOUND - The state of the route table association is not associated.

Type: String

Valid Values: TRANSIT_GATEWAY_ATTACHMENT_NOT_FOUND | TRANSIT_GATEWAY_ATTACHMENT_NOT_IN_TRANSIT_GATEWAY | CYCLIC_PATH_DETECTED | TRANSIT_GATEWAY_ATTACHMENT_STABLE_ROUTE_TABLE_NOT_FOUND | ROUTE_NOT_FOUND | BLACKHOLE_ROUTE_FOR_DESTINATION_FOUND | INACTIVE_ROUTE_FOR_DESTINATION_FOUND | TRANSIT_GATEWAY_ATTACHMENT_ATTACH_ARN_NO_MATCH | MAX_HOPS_EXCEEDED | POSSIBLE_MIDDLEBOX | NO_DESTINATION_ARN_PROVIDED

Required: No

**ReasonContext**

Additional information about the path. Available only if a connection is not found.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 10000000.

Key Pattern: `[\s\S]*`

Value Length Constraints: Minimum length of 0. Maximum length of 10000000.

Value Pattern: `[\s\S]*`

Required: No

**ResultCode**

The result of the analysis. If the status is `NOT_CONNECTED`, check the reason code.

Type: String

Valid Values: `CONNECTED | NOT_CONNECTED`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RouteAnalysisEndpointOptions

Describes a source or a destination.

## Contents

**IpAddress**

The IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**TransitGatewayArn**

The ARN of the transit gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**TransitGatewayAttachmentArn**

The ARN of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RouteAnalysisEndpointOptionsSpecification

Describes a source or a destination.

## Contents

**IpAddress**

The IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**TransitGatewayAttachmentArn**

The ARN of the transit gateway attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RouteAnalysisPath

Describes a route analysis path.

## Contents

**CompletionStatus**

The status of the analysis at completion.

Type: RouteAnalysisCompletion object

Required: No

**Path**

The route analysis path.

Type: Array of PathComponent 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 Java V2
- AWS SDK for Ruby V3

# RouteTableIdentifier

Describes a route table.

## Contents

**CoreNetworkSegmentEdge**

The segment edge in a core network.

Type: CoreNetworkSegmentEdgeIdentifier object

Required: No

**TransitGatewayRouteTableArn**

The ARN of the transit gateway route table for the attachment request. For example, `"TransitGatewayRouteTableArn": "arn:aws:ec2:us-west-2:123456789012:transit-gateway-route-table/tgw-rtb-9876543210123456"`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# 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

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

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**Location**

The location of the site.

Type: Location object

Required: No

**SiteArn**

The Amazon Resource Name (ARN) of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**SiteId**

The ID of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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 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 Java V2
- AWS SDK for Ruby V3

# SiteToSiteVpnAttachment

Creates a site-to-site VPN attachment.

## Contents

**Attachment**

Provides details about a site-to-site VPN attachment.

Type: Attachment object

Required: No

**VpnConnectionArn**

The ARN of the site-to-site VPN attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:vpn-connection\/vpn-[0-9a-f]{8,17}$`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Tag

Describes a tag.

## Contents

**Key**

The tag key.

Constraints: Maximum length of 128 characters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

**Value**

The tag value.

Constraints: Maximum length of 256 characters.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TransitGatewayConnectPeerAssociation

Describes a transit gateway Connect peer association.

## Contents

**DeviceId**

The ID of the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**LinkId**

The ID of the link.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

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

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TransitGatewayPeering

Describes a transit gateway peering attachment.

## Contents

**Peering**

Describes a transit gateway peer connection.

Type: Peering object

Required: No

**TransitGatewayArn**

The ARN of the transit gateway.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

**TransitGatewayPeeringAttachmentId**

The ID of the transit gateway peering attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^tgw-attach-([0-9a-f]{8,17})$`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TransitGatewayRegistration

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

## Contents

**GlobalNetworkId**

The ID of the global network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `[\s\S]*`

Required: No

**State**

The state of the transit gateway registration.

Type: TransitGatewayRegistrationStateReason object

Required: No

**TransitGatewayArn**

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

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# 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

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

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TransitGatewayRouteTableAttachment

Describes a transit gateway route table attachment.

## Contents

**Attachment**

Describes a core network attachment.

Type: Attachment object

Required: No

**PeeringId**

The ID of the peering attachment.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Pattern: `^peering-([0-9a-f]{8,17})$`

Required: No

**TransitGatewayRouteTableArn**

The ARN of the transit gateway attachment route table. For example, `"TransitGatewayRouteTableArn": "arn:aws:ec2:us-west-2:123456789012:transit-gateway-route-table/tgw-rtb-9876543210123456"`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[\s\S]*`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ValidationExceptionField

Describes a validation exception for a field.

## Contents

**Message**

The message for the field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

**Name**

The name of the field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10000000.

Pattern: `[\s\S]*`

Required: Yes

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VpcAttachment

Describes a VPC attachment.

## Contents

**Attachment**

Provides details about the VPC attachment.

Type: Attachment object

Required: No

**Options**

Provides details about the VPC attachment.

Type: VpcOptions object

Required: No

**SubnetArns**

The subnet ARNs.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `^arn:[^:]{1,63}:ec2:[^:]{0,63}:[^:]{0,63}:subnet\/subnet-[0-9a-f]{8,17}$|^$`

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

# VpcOptions

Describes the VPC options.

## Contents

**ApplianceModeSupport**

Indicates whether appliance mode is supported. If enabled, traffic flow between a source and destination use the same Availability Zone for the VPC attachment for the lifetime of that flow. The default value is `false`.

Type: Boolean

Required: No

**Ipv6Support**

Indicates whether IPv6 is supported.

Type: Boolean

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Common Parameters

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

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

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

Type: string

Required: Yes

**X-Amz-Algorithm**

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

**X-Amz-Credential**

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

**X-Amz-Date**

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

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

Type: string

Required: Conditional

**X-Amz-Security-Token**

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

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

Type: string

Required: Conditional

**X-Amz-Signature**

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

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

Type: string

Required: Conditional

**X-Amz-SignedHeaders**

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

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

Type: string

Required: Conditional

# Common Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

**InternalFailure**

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

HTTP Status Code: 500

**MalformedHttpRequestException**

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

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

**OptInRequired**

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

HTTP Status Code: 403

**RequestAbortedException**

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

HTTP Status Code: 400

**RequestEntityTooLargeException**

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

HTTP Status Code: 413

**RequestExpired**

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

HTTP Status Code: 400

**RequestTimeoutException**

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

HTTP Status Code: 408

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**UnrecognizedClientException**

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

HTTP Status Code: 403

**UnknownOperationException**

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

HTTP Status Code: 404

**ValidationError**

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

HTTP Status Code: 400