



API Reference

# AWS Private 5G



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# AWS Private 5G: API Reference

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
<b>AcknowledgeOrderReceipt</b> .....	<b>3</b>
Request Syntax .....	3
URI Request Parameters .....	3
Request Body .....	3
Response Syntax .....	3
Response Elements .....	4
Errors .....	5
See Also .....	5
<b>ActivateDeviceIdentifier</b> .....	<b>6</b>
Request Syntax .....	6
URI Request Parameters .....	6
Request Body .....	6
Response Syntax .....	7
Response Elements .....	7
Errors .....	8
See Also .....	8
<b>ActivateNetworkSite</b> .....	<b>10</b>
Request Syntax .....	10
URI Request Parameters .....	10
Request Body .....	10
Response Syntax .....	12
Response Elements .....	13
Errors .....	13
See Also .....	14
<b>ConfigureAccessPoint</b> .....	<b>15</b>
Request Syntax .....	15
URI Request Parameters .....	15
Request Body .....	15
Response Syntax .....	17
Response Elements .....	18
Errors .....	18
See Also .....	19

---

CreateNetwork .....	20
Request Syntax .....	20
URI Request Parameters .....	20
Request Body .....	20
Response Syntax .....	21
Response Elements .....	22
Errors .....	22
See Also .....	23
CreateNetworkSite .....	24
Request Syntax .....	24
URI Request Parameters .....	25
Request Body .....	25
Response Syntax .....	27
Response Elements .....	28
Errors .....	29
See Also .....	29
DeactivateDeviceIdentifier .....	31
Request Syntax .....	31
URI Request Parameters .....	31
Request Body .....	31
Response Syntax .....	32
Response Elements .....	32
Errors .....	32
See Also .....	33
DeleteNetwork .....	34
Request Syntax .....	34
URI Request Parameters .....	34
Request Body .....	34
Response Syntax .....	34
Response Elements .....	35
Errors .....	35
See Also .....	36
DeleteNetworkSite .....	37
Request Syntax .....	37
URI Request Parameters .....	37
Request Body .....	37

Response Syntax .....	37
Response Elements .....	39
Errors .....	39
See Also .....	40
<b>GetDeviceIdentifier</b> .....	<b>41</b>
Request Syntax .....	41
URI Request Parameters .....	41
Request Body .....	41
Response Syntax .....	41
Response Elements .....	42
Errors .....	42
See Also .....	43
<b>GetNetwork</b> .....	<b>44</b>
Request Syntax .....	44
URI Request Parameters .....	44
Request Body .....	44
Response Syntax .....	44
Response Elements .....	45
Errors .....	45
See Also .....	46
<b>GetNetworkResource</b> .....	<b>47</b>
Request Syntax .....	47
URI Request Parameters .....	47
Request Body .....	47
Response Syntax .....	47
Response Elements .....	49
Errors .....	49
See Also .....	50
<b>GetNetworkSite</b> .....	<b>51</b>
Request Syntax .....	51
URI Request Parameters .....	51
Request Body .....	51
Response Syntax .....	51
Response Elements .....	53
Errors .....	53
See Also .....	54

---

GetOrder .....	55
Request Syntax .....	55
URI Request Parameters .....	55
Request Body .....	55
Response Syntax .....	55
Response Elements .....	56
Errors .....	57
See Also .....	57
ListDeviceIdentifiers .....	59
Request Syntax .....	59
URI Request Parameters .....	59
Request Body .....	59
Response Syntax .....	60
Response Elements .....	61
Errors .....	61
See Also .....	62
ListNetworkResources .....	63
Request Syntax .....	63
URI Request Parameters .....	63
Request Body .....	63
Response Syntax .....	64
Response Elements .....	66
Errors .....	66
See Also .....	67
ListNetworks .....	68
Request Syntax .....	68
URI Request Parameters .....	68
Request Body .....	68
Response Syntax .....	69
Response Elements .....	69
Errors .....	70
See Also .....	70
ListNetworkSites .....	72
Request Syntax .....	72
URI Request Parameters .....	72
Request Body .....	72

---

Response Syntax .....	73
Response Elements .....	75
Errors .....	75
See Also .....	76
ListOrders .....	77
Request Syntax .....	77
URI Request Parameters .....	77
Request Body .....	77
Response Syntax .....	78
Response Elements .....	79
Errors .....	80
See Also .....	80
ListTagsForResource .....	82
Request Syntax .....	82
URI Request Parameters .....	82
Request Body .....	82
Response Syntax .....	82
Response Elements .....	82
Errors .....	83
See Also .....	84
Ping .....	85
Request Syntax .....	85
URI Request Parameters .....	85
Request Body .....	85
Response Syntax .....	85
Response Elements .....	85
Errors .....	85
See Also .....	86
StartNetworkResourceUpdate .....	87
Request Syntax .....	87
URI Request Parameters .....	88
Request Body .....	88
Response Syntax .....	89
Response Elements .....	91
Errors .....	91
See Also .....	92

TagResource .....	93
Request Syntax .....	93
URI Request Parameters .....	93
Request Body .....	93
Response Syntax .....	94
Response Elements .....	94
Errors .....	94
See Also .....	95
UntagResource .....	96
Request Syntax .....	96
URI Request Parameters .....	96
Request Body .....	96
Response Syntax .....	96
Response Elements .....	97
Errors .....	97
See Also .....	97
UpdateNetworkSite .....	99
Request Syntax .....	99
URI Request Parameters .....	99
Request Body .....	99
Response Syntax .....	100
Response Elements .....	101
Errors .....	102
See Also .....	102
UpdateNetworkSitePlan .....	104
Request Syntax .....	104
URI Request Parameters .....	104
Request Body .....	104
Response Syntax .....	105
Response Elements .....	107
Errors .....	107
See Also .....	108
<b>Data Types .....</b>	<b>109</b>
Address .....	110
Contents .....	110
See Also .....	112



CommitmentConfiguration .....	113
Contents .....	113
See Also .....	114
CommitmentInformation .....	115
Contents .....	115
See Also .....	115
DeviceIdentifier .....	116
Contents .....	116
See Also .....	117
NameValuePair .....	119
Contents .....	119
See Also .....	119
Network .....	120
Contents .....	120
See Also .....	121
NetworkResource .....	122
Contents .....	122
See Also .....	125
NetworkResourceDefinition .....	126
Contents .....	126
See Also .....	126
NetworkSite .....	128
Contents .....	128
See Also .....	130
Order .....	131
Contents .....	131
See Also .....	132
OrderedResourceDefinition .....	133
Contents .....	133
See Also .....	133
Position .....	135
Contents .....	135
See Also .....	136
ReturnInformation .....	137
Contents .....	137
See Also .....	138

---

SitePlan .....	139
Contents .....	139
See Also .....	139
TrackingInformation .....	140
Contents .....	140
See Also .....	140
ValidationExceptionField .....	141
Contents .....	141
See Also .....	141
<b>Common Parameters .....</b>	<b>142</b>
<b>Common Errors .....</b>	<b>145</b>

# Welcome

AWS Private 5G is a managed service that makes it easy to deploy, operate, and scale your own private mobile network at your on-premises location. Private 5G provides the pre-configured hardware and software for mobile networks, helps automate setup, and scales capacity on demand to support additional devices as needed.

This document was last published on July 4, 2024.

# Actions

The following actions are supported:

- [AcknowledgeOrderReceipt](#)
- [ActivateDeviceIdentifier](#)
- [ActivateNetworkSite](#)
- [ConfigureAccessPoint](#)
- [CreateNetwork](#)
- [CreateNetworkSite](#)
- [DeactivateDeviceIdentifier](#)
- [DeleteNetwork](#)
- [DeleteNetworkSite](#)
- [GetDeviceIdentifier](#)
- [GetNetwork](#)
- [GetNetworkResource](#)
- [GetNetworkSite](#)
- [GetOrder](#)
- [ListDeviceIdentifiers](#)
- [ListNetworkResources](#)
- [ListNetworks](#)
- [ListNetworkSites](#)
- [ListOrders](#)
- [ListTagsForResource](#)
- [Ping](#)
- [StartNetworkResourceUpdate](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateNetworkSite](#)
- [UpdateNetworkSitePlan](#)

# AcknowledgeOrderReceipt

Acknowledges that the specified network order was received.

## Request Syntax

```
POST /v1/orders/acknowledge HTTP/1.1
Content-type: application/json
```

```
{
  "orderArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### orderArn

The Amazon Resource Name (ARN) of the order.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Response Syntax

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

```
{
  "order": {
    "acknowledgmentStatus": "string",
    "createdAt": "string",
```

```
"networkArn": "string",
"networkSiteArn": "string",
"orderArn": "string",
"orderedResources": [
  {
    "commitmentConfiguration": {
      "automaticRenewal": boolean,
      "commitmentLength": "string"
    },
    "count": number,
    "type": "string"
  }
],
"shippingAddress": {
  "city": "string",
  "company": "string",
  "country": "string",
  "emailAddress": "string",
  "name": "string",
  "phoneNumber": "string",
  "postalCode": "string",
  "stateOrProvince": "string",
  "street1": "string",
  "street2": "string",
  "street3": "string"
},
"trackingInformation": [
  {
    "trackingNumber": "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.

### order

Information about the order.

Type: [Order](#) object

## Errors

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

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ValidationException

The request failed validation.

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](#)

# ActivateDeviceIdentifier

Activates the specified device identifier.

## Request Syntax

```
POST /v1/device-identifiers/activate HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "deviceIdentifierArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

### deviceIdentifierArn

The Amazon Resource Name (ARN) of the device identifier.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes



## Response Syntax

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

{
  "deviceIdentifier": {
    "createdAt": "string",
    "deviceIdentifierArn": "string",
    "iccid": "string",
    "imsi": "string",
    "networkArn": "string",
    "orderArn": "string",
    "status": "string",
    "trafficGroupArn": "string",
    "vendor": "string"
  },
  "tags": {
    "string" : "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.

### deviceIdentifier

Information about the device identifier.

Type: [DeviceIdentifier](#) object

### tags

The tags on the device identifier.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### InternalServerErrorException

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ValidationException

The request failed validation.

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](#)

# ActivateNetworkSite

Activates the specified network site.

## Request Syntax

```
POST /v1/network-sites/activate HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "commitmentConfiguration": {
    "automaticRenewal": boolean,
    "commitmentLength": "string"
  },
  "networkSiteArn": "string",
  "shippingAddress": {
    "city": "string",
    "company": "string",
    "country": "string",
    "emailAddress": "string",
    "name": "string",
    "phoneNumber": "string",
    "postalCode": "string",
    "stateOrProvince": "string",
    "street1": "string",
    "street2": "string",
    "street3": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

## commitmentConfiguration

Determines the duration and renewal status of the commitment period for all pending radio units.

If you include `commitmentConfiguration` in the `ActivateNetworkSiteRequest` action, you must specify the following:

- The commitment period for the radio unit. You can choose a 60-day, 1-year, or 3-year period.
- Whether you want your commitment period to automatically renew in 1-year increments after your current commitment period expires.

For pricing, see [AWS Private 5G Pricing](#).

If you do not include `commitmentConfiguration` in the `ActivateNetworkSiteRequest` action, the commitment period is set to 60-days.

Type: [CommitmentConfiguration](#) object

Required: No

## networkSiteArn

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## shippingAddress

The shipping address of the network site.

Type: [Address](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
    "createdAt": "string",
    "currentPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "resourceDefinitions": [
        {
          "count": number,
          "options": [
            {
              "name": "string",
              "value": "string"
            }
          ],
          "type": "string"
        }
      ]
    },
    "description": "string",
    "networkArn": "string",
    "networkSiteArn": "string",
    "networkSiteName": "string",
    "pendingPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  }
}
```

```
    }
  ],
  "resourceDefinitions": [
    {
      "count": number,
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "type": "string"
    }
  ],
  "status": "string",
  "statusReason": "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

## Errors

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

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

## ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)



# ConfigureAccessPoint

Configures the specified network resource.

Use this action to specify the geographic position of the hardware. You must provide Certified Professional Installer (CPI) credentials in the request so that we can obtain spectrum grants. For more information, see [Radio units](#) in the *AWS Private 5G User Guide*.

## Request Syntax

```
POST /v1/network-resources/configure HTTP/1.1
Content-type: application/json
```

```
{
  "accessPointArn": "string",
  "cpiSecretKey": "string",
  "cpiUserId": "string",
  "cpiUsername": "string",
  "cpiUserPassword": "string",
  "position": {
    "elevation": number,
    "elevationReference": "string",
    "elevationUnit": "string",
    "latitude": number,
    "longitude": number
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [accessPointArn](#)

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### [cpiSecretKey](#)

A Base64 encoded string of the CPI certificate associated with the CPI user who is certifying the coordinates of the network resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

### [cpiUserId](#)

The CPI user ID of the CPI user who is certifying the coordinates of the network resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

### [cpiUsername](#)

The CPI user name of the CPI user who is certifying the coordinates of the radio unit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

### [cpiUserPassword](#)

The CPI password associated with the CPI certificate in `cpiSecretKey`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Required: No

## position

The position of the network resource.

Type: [Position](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "accessPoint": {
    "attributes": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "commitmentInformation": {
      "commitmentConfiguration": {
        "automaticRenewal": boolean,
        "commitmentLength": "string"
      },
      "expiresOn": "string",
      "startAt": "string"
    },
    "createdAt": "string",
    "description": "string",
    "health": "string",
    "model": "string",
    "networkArn": "string",
    "networkResourceArn": "string",
    "networkSiteArn": "string",
    "orderArn": "string",
    "position": {
      "elevation": number,
      "elevationReference": "string",
      "elevationUnit": "string",
      "latitude": number,
      "longitude": number
    }
  }
}
```

```
    },
    "returnInformation": {
      "replacementOrderArn": "string",
      "returnReason": "string",
      "shippingAddress": {
        "city": "string",
        "company": "string",
        "country": "string",
        "emailAddress": "string",
        "name": "string",
        "phoneNumber": "string",
        "postalCode": "string",
        "stateOrProvince": "string",
        "street1": "string",
        "street2": "string",
        "street3": "string"
      },
      "shippingLabel": "string"
    },
    "serialNumber": "string",
    "status": "string",
    "statusReason": "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.

### accessPoint

Information about the network resource.

Type: [NetworkResource](#) object

## Errors

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

## InternalServerErrorException

Information about an internal error.

HTTP Status Code: 500

## ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)

# CreateNetwork

Creates a network.

## Request Syntax

```
POST /v1/networks HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "description": "string",
  "networkName": "string",
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

### description

The description of the network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

### networkName

The name of the network. You can't change the name after you create the network.

Type: String

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

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

Required: Yes

### tags

The tags to apply to the network.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

Required: No

## Response Syntax

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

```
{
  "network": {
    "createdAt": "string",
    "description": "string",
    "networkArn": "string",
    "networkName": "string",
```

```
    "status": "string",
    "statusReason": "string"
  },
  "tags": {
    "string" : "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.

### network

Information about the network.

Type: [Network](#) object

### tags

The network tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **InternalServerError**

Information about an internal error.



HTTP Status Code: 500

### **LimitExceededException**

The limit was exceeded.

HTTP Status Code: 400

### **ValidationException**

The request failed validation.

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](#)

# CreateNetworkSite

Creates a network site.

## Request Syntax

```
POST /v1/network-sites HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "availabilityZone": "string",
  "availabilityZoneId": "string",
  "clientToken": "string",
  "description": "string",
  "networkArn": "string",
  "networkSiteName": "string",
  "pendingPlan": {
    "options": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### availabilityZone

The Availability Zone that is the parent of this site. You can't change the Availability Zone after you create the site.

Type: String

Required: No

### availabilityZoneId

The ID of the Availability Zone that is the parent of this site. You can't change the Availability Zone after you create the site.

Type: String

Required: No

### clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

### description

The description of the site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

### networkArn

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### networkSiteName

The name of the site. You can't change the name after you create the site.

Type: String

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

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

Required: Yes

### pendingPlan

Information about the pending plan for this site.

Type: [SitePlan](#) object

Required: No

### tags

The tags to apply to the network site.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

Required: No

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
    "createdAt": "string",
    "currentPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "resourceDefinitions": [
        {
          "count": number,
          "options": [
            {
              "name": "string",
              "value": "string"
            }
          ],
          "type": "string"
        }
      ]
    },
    "description": "string",
    "networkArn": "string",
    "networkSiteArn": "string",
    "networkSiteName": "string",
    "pendingPlan": {
      "options": [
        {
```

```

        "name": "string",
        "value": "string"
    }
],
"resourceDefinitions": [
    {
        "count": number,
        "options": [
            {
                "name": "string",
                "value": "string"
            }
        ],
        "type": "string"
    }
]
},
"status": "string",
"statusReason": "string"
},
"tags": {
    "string" : "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

### tags

The network site tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### InternalServerErrorException

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ValidationException

The request failed validation.

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](#)



# DeactivateDeviceIdentifier

Deactivates the specified device identifier.

## Request Syntax

```
POST /v1/device-identifiers/deactivate HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "deviceIdentifierArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

### deviceIdentifierArn

The Amazon Resource Name (ARN) of the device identifier.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Response Syntax

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

{
  "deviceIdentifier": {
    "createdAt": "string",
    "deviceIdentifierArn": "string",
    "iccid": "string",
    "imsi": "string",
    "networkArn": "string",
    "orderArn": "string",
    "status": "string",
    "trafficGroupArn": "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.

### deviceIdentifier

Information about the device identifier.

Type: [DeviceIdentifier](#) object

## Errors

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

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# DeleteNetwork

Deletes the specified network. You must delete network sites before you delete the network. For more information, see [DeleteNetworkSite](#) in the *API Reference for AWS Private 5G*.

## Request Syntax

```
DELETE /v1/networks/networkArn?clientToken=clientToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [clientToken](#)

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Length Constraints: Minimum length of 1. Maximum length of 100.

### [networkArn](#)

The Amazon Resource Name (ARN) of the network.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "network": {
    "createdAt": "string",
    "description": "string",
```

```
"networkArn": "string",  
"networkName": "string",  
"status": "string",  
"statusReason": "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.

### network

Information about the network.

Type: [Network](#) object

## Errors

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

### **AccessDeniedException**

You do not have permission to perform this operation.

HTTP Status Code: 403

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# DeleteNetworkSite

Deletes the specified network site. Return the hardware after you delete the network site. You are responsible for minimum charges. For more information, see [Hardware returns](#) in the *AWS Private 5G User Guide*.

## Request Syntax

```
DELETE /v1/network-sites/networkSiteArn?clientToken=clientToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [clientToken](#)

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Length Constraints: Minimum length of 1. Maximum length of 100.

### [networkSiteArn](#)

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

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
```

```
"createdAt": "string",
"currentPlan": {
  "options": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "resourceDefinitions": [
    {
      "count": number,
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "type": "string"
    }
  ]
},
"description": "string",
"networkArn": "string",
"networkSiteArn": "string",
"networkSiteName": "string",
"pendingPlan": {
  "options": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "resourceDefinitions": [
    {
      "count": number,
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "type": "string"
    }
  ]
}
```



```
    },  
    "status": "string",  
    "statusReason": "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

## Errors

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

### **AccessDeniedException**

You do not have permission to perform this operation.

HTTP Status Code: 403

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# GetDeviceIdentifier

Gets the specified device identifier.

## Request Syntax

```
GET /v1/device-identifiers/deviceIdentifierArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### deviceIdentifierArn

The Amazon Resource Name (ARN) of the device identifier.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "deviceIdentifier": {
    "createdAt": "string",
    "deviceIdentifierArn": "string",
    "iccid": "string",
    "imsi": "string",
    "networkArn": "string",
    "orderArn": "string",
    "status": "string",
    "trafficGroupArn": "string",
    "vendor": "string"
  }
}
```

```
  },  
  "tags": {  
    "string" : "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.

### deviceIdentifier

Information about the device identifier.

Type: [DeviceIdentifier](#) object

### tags

The device identifier tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

## ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)

# GetNetwork

Gets the specified network.

## Request Syntax

```
GET /v1/networks/networkArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### networkArn

The Amazon Resource Name (ARN) of the network.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "network": {
    "createdAt": "string",
    "description": "string",
    "networkArn": "string",
    "networkName": "string",
    "status": "string",
    "statusReason": "string"
  },
  "tags": {
    "string" : "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.

### network

Information about the network.

Type: [Network](#) object

### tags

The network tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)



# GetNetworkResource

Gets the specified network resource.

## Request Syntax

```
GET /v1/network-resources/networkResourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### networkResourceArn

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

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "networkResource": {
    "attributes": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "commitmentInformation": {
      "commitmentConfiguration": {
        "automaticRenewal": boolean,
        "commitmentLength": "string"
      }
    }
  }
}
```

```
    },
    "expiresOn": "string",
    "startAt": "string"
  },
  "createdAt": "string",
  "description": "string",
  "health": "string",
  "model": "string",
  "networkArn": "string",
  "networkResourceArn": "string",
  "networkSiteArn": "string",
  "orderArn": "string",
  "position": {
    "elevation": number,
    "elevationReference": "string",
    "elevationUnit": "string",
    "latitude": number,
    "longitude": number
  },
  "returnInformation": {
    "replacementOrderArn": "string",
    "returnReason": "string",
    "shippingAddress": {
      "city": "string",
      "company": "string",
      "country": "string",
      "emailAddress": "string",
      "name": "string",
      "phoneNumber": "string",
      "postalCode": "string",
      "stateOrProvince": "string",
      "street1": "string",
      "street2": "string",
      "street3": "string"
    },
    "shippingLabel": "string"
  },
  "serialNumber": "string",
  "status": "string",
  "statusReason": "string",
  "type": "string",
  "vendor": "string"
},
"tags": {
```

```
    "string" : "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.

### networkResource

Information about the network resource.

Type: [NetworkResource](#) object

### tags

The network resource tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

## **ValidationException**

The request failed validation.

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](#)

# GetNetworkSite

Gets the specified network site.

## Request Syntax

```
GET /v1/network-sites/networkSiteArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### networkSiteArn

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

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
    "createdAt": "string",
    "currentPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  },
}
```

```
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ],
    "description": "string",
    "networkArn": "string",
    "networkSiteArn": "string",
    "networkSiteName": "string",
    "pendingPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "resourceDefinitions": [
        {
          "count": number,
          "options": [
            {
              "name": "string",
              "value": "string"
            }
          ],
          "type": "string"
        }
      ]
    },
    "status": "string",
    "statusReason": "string"
  },
  "tags": {
    "string" : "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

### tags

The network site tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)



# GetOrder

Gets the specified order.

## Request Syntax

```
GET /v1/orders/orderArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### orderArn

The Amazon Resource Name (ARN) of the order.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "order": {
    "acknowledgmentStatus": "string",
    "createdAt": "string",
    "networkArn": "string",
    "networkSiteArn": "string",
    "orderArn": "string",
    "orderedResources": [
      {
        "commitmentConfiguration": {
          "automaticRenewal": boolean,
          "commitmentLength": "string"
        }
      }
    ]
  }
}
```

```
    },
    "count": number,
    "type": "string"
  }
],
"shippingAddress": {
  "city": "string",
  "company": "string",
  "country": "string",
  "emailAddress": "string",
  "name": "string",
  "phoneNumber": "string",
  "postalCode": "string",
  "stateOrProvince": "string",
  "street1": "string",
  "street2": "string",
  "street3": "string"
},
"trackingInformation": [
  {
    "trackingNumber": "string"
  }
]
},
"tags": {
  "string" : "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.

### order

Information about the order.

Type: [Order](#) object

### tags

The order tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ValidationException

The request failed validation.

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](#)

# ListDeviceIdentifiers

Lists device identifiers. Add filters to your request to return a more specific list of results. Use filters to match the Amazon Resource Name (ARN) of an order, the status of device identifiers, or the ARN of the traffic group.

If you specify multiple filters, filters are joined with an OR, and the request returns results that match all of the specified filters.

## Request Syntax

```
POST /v1/device-identifiers/list HTTP/1.1
Content-type: application/json
```

```
{
  "filters": {
    "string" : [ "string" ]
  },
  "maxResults": number,
  "networkArn": "string",
  "startToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### filters

The filters.

- ORDER - The Amazon Resource Name (ARN) of the order.
- STATUS - The status (ACTIVE | INACTIVE).
- TRAFFIC\_GROUP - The Amazon Resource Name (ARN) of the traffic group.

Filter values are case sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values.

Type: String to array of strings map

Valid Keys: STATUS | ORDER | TRAFFIC\_GROUP

Required: No

### maxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

### networkArn

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### startToken

The token for the next page of results.

Type: String

Required: No

## Response Syntax

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

{
  "deviceIdentifiers": [
    {
      "createdAt": "string",
      "deviceIdentifierArn": "string",
```

```
    "iccid": "string",
    "imsi": "string",
    "networkArn": "string",
    "orderArn": "string",
    "status": "string",
    "trafficGroupArn": "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.

### deviceIdentifiers

Information about the device identifiers.

Type: Array of [DeviceIdentifier](#) objects

### nextToken

The token for the next page of results.

Type: String

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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](#)



# ListNetworkResources

Lists network resources. Add filters to your request to return a more specific list of results. Use filters to match the Amazon Resource Name (ARN) of an order or the status of network resources.

If you specify multiple filters, filters are joined with an OR, and the request returns results that match all of the specified filters.

## Request Syntax

```
POST /v1/network-resources HTTP/1.1
Content-type: application/json
```

```
{
  "filters": {
    "string" : [ "string" ]
  },
  "maxResults": number,
  "networkArn": "string",
  "startToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### filters

The filters.

- ORDER - The Amazon Resource Name (ARN) of the order.
- STATUS - The status (AVAILABLE | DELETED | DELETING | PENDING | PENDING\_RETURN | PROVISIONING | SHIPPED).

Filter values are case sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values.

Type: String to array of strings map

Valid Keys: ORDER | STATUS

Required: No

### maxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

### networkArn

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### startToken

The token for the next page of results.

Type: String

Required: No

## Response Syntax

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

```
{
  "networkResources": [
    {
      "attributes": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  ],
```

```
"commitmentInformation": {
  "commitmentConfiguration": {
    "automaticRenewal": boolean,
    "commitmentLength": "string"
  },
  "expiresOn": "string",
  "startAt": "string"
},
"createdAt": "string",
"description": "string",
"health": "string",
"model": "string",
"networkArn": "string",
"networkResourceArn": "string",
"networkSiteArn": "string",
"orderArn": "string",
"position": {
  "elevation": number,
  "elevationReference": "string",
  "elevationUnit": "string",
  "latitude": number,
  "longitude": number
},
"returnInformation": {
  "replacementOrderArn": "string",
  "returnReason": "string",
  "shippingAddress": {
    "city": "string",
    "company": "string",
    "country": "string",
    "emailAddress": "string",
    "name": "string",
    "phoneNumber": "string",
    "postalCode": "string",
    "stateOrProvince": "string",
    "street1": "string",
    "street2": "string",
    "street3": "string"
  },
  "shippingLabel": "string"
},
"serialNumber": "string",
"status": "string",
"statusReason": "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.

### networkResources

Information about network resources.

Type: Array of [NetworkResource](#) objects

### nextToken

The token for the next page of results.

Type: String

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# ListNetworks

Lists networks. Add filters to your request to return a more specific list of results. Use filters to match the status of the network.

## Request Syntax

```
POST /v1/networks/list HTTP/1.1
Content-type: application/json

{
  "filters": {
    "string" : [ "string" ]
  },
  "maxResults": number,
  "startToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### filters

The filters.

- STATUS - The status (AVAILABLE | CREATED | DELETED | DEPROVISIONING | PROVISIONING).

Filter values are case sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values.

Type: String to array of strings map

Valid Keys: STATUS

Required: No

## maxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

## startToken

The token for the next page of results.

Type: String

Required: No

## Response Syntax

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

{
  "networks": [
    {
      "createdAt": "string",
      "description": "string",
      "networkArn": "string",
      "networkName": "string",
      "status": "string",
      "statusReason": "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.

## [networks](#)

The networks.

Type: Array of [Network](#) objects

## [nextToken](#)

The token for the next page of results.

Type: String

## Errors

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

### **InternalServerErrorException**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# ListNetworkSites

Lists network sites. Add filters to your request to return a more specific list of results. Use filters to match the status of the network site.

## Request Syntax

```
POST /v1/network-sites/list HTTP/1.1
Content-type: application/json
```

```
{
  "filters": {
    "string" : [ "string" ]
  },
  "maxResults": number,
  "networkArn": "string",
  "startToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### filters

The filters. Add filters to your request to return a more specific list of results. Use filters to match the status of the network sites.

- STATUS - The status (AVAILABLE | CREATED | DELETED | DEPROVISIONING | PROVISIONING).

Filter values are case sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values.

Type: String to array of strings map

Valid Keys: STATUS

Required: No

## maxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

## networkArn

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## startToken

The token for the next page of results.

Type: String

Required: No

## Response Syntax

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

{
  "networkSites": [
    {
      "availabilityZone": "string",
      "availabilityZoneId": "string",
      "createdAt": "string",
      "currentPlan": {
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ]
      }
    }
  ]
}
```

```
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  },
  "description": "string",
  "networkArn": "string",
  "networkSiteArn": "string",
  "networkSiteName": "string",
  "pendingPlan": {
    "options": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  },
  "status": "string",
  "statusReason": "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.

### networkSites

Information about the network sites.

Type: Array of [NetworkSite](#) objects

### nextToken

The token for the next page of results.

Type: String

## Errors

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

### **InternalServerErrorException**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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](#)

# ListOrders

Lists orders. Add filters to your request to return a more specific list of results. Use filters to match the Amazon Resource Name (ARN) of the network site or the status of the order.

If you specify multiple filters, filters are joined with an OR, and the request returns results that match all of the specified filters.

## Request Syntax

```
POST /v1/orders/list HTTP/1.1
Content-type: application/json

{
  "filters": {
    "string" : [ "string" ]
  },
  "maxResults": number,
  "networkArn": "string",
  "startToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### filters

The filters.

- NETWORK\_SITE - The Amazon Resource Name (ARN) of the network site.
- STATUS - The status (ACKNOWLEDGING | ACKNOWLEDGED | UNACKNOWLEDGED).

Filter values are case sensitive. If you specify multiple values for a filter, the values are joined with an OR, and the request returns all results that match any of the specified values.

Type: String to array of strings map

Valid Keys: STATUS | NETWORK\_SITE

Required: No

### maxResults

The maximum number of results to return.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

### networkArn

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### startToken

The token for the next page of results.

Type: String

Required: No

## Response Syntax

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

{
  "nextToken": "string",
  "orders": [
    {
      "acknowledgmentStatus": "string",
      "createdAt": "string",
      "networkArn": "string",
```



```
"networkSiteArn": "string",
"orderArn": "string",
"orderedResources": [
  {
    "commitmentConfiguration": {
      "automaticRenewal": boolean,
      "commitmentLength": "string"
    },
    "count": number,
    "type": "string"
  }
],
"shippingAddress": {
  "city": "string",
  "company": "string",
  "country": "string",
  "emailAddress": "string",
  "name": "string",
  "phoneNumber": "string",
  "postalCode": "string",
  "stateOrProvince": "string",
  "street1": "string",
  "street2": "string",
  "street3": "string"
},
"trackingInformation": [
  {
    "trackingNumber": "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

## [orders](#)

Information about the orders.

Type: Array of [Order](#) objects

## Errors

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

### **InternalServerErrorException**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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 the 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.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "tags": {
    "string" : "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.

## tags

The resource tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **AccessDeniedException**

You do not have permission to perform this operation.

HTTP Status Code: 403

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request failed validation.

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](#)

# Ping

Checks the health of the service.

## Request Syntax

```
GET /ping HTTP/1.1
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "status": "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.

### status

Information about the health of the service.

Type: String

## Errors

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

## InternalServerErrorException

Information about an internal error.

HTTP Status Code: 500

## 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](#)



# StartNetworkResourceUpdate

Use this action to do the following tasks:

- Update the duration and renewal status of the commitment period for a radio unit. The update goes into effect immediately.
- Request a replacement for a network resource.
- Request that you return a network resource.

After you submit a request to replace or return a network resource, the status of the network resource changes to `CREATING_SHIPPING_LABEL`. The shipping label is available when the status of the network resource is `PENDING_RETURN`. After the network resource is successfully returned, its status changes to `DELETED`. For more information, see [Return a radio unit](#).

## Request Syntax

```
POST /v1/network-resources/update HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "commitmentConfiguration": {
    "automaticRenewal": boolean,
    "commitmentLength": "string"
  },
  "networkResourceArn": "string",
  "returnReason": "string",
  "shippingAddress": {
    "city": "string",
    "company": "string",
    "country": "string",
    "emailAddress": "string",
    "name": "string",
    "phoneNumber": "string",
    "postalCode": "string",
    "stateOrProvince": "string",
    "street1": "string",
    "street2": "string",
    "street3": "string"
  },
  "updateType": "string"
}
```

```
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### commitmentConfiguration

Use this action to extend and automatically renew the commitment period for the radio unit. You can do the following:

- Change a 60-day commitment to a 1-year or 3-year commitment. The change is immediate and the hourly rate decreases to the rate for the new commitment period.
- Change a 1-year commitment to a 3-year commitment. The change is immediate and the hourly rate decreases to the rate for the 3-year commitment period.
- Set a 1-year commitment to automatically renew. Your commitment will renew each year. The hourly rate will continue at your existing 1-year rate.
- Set a 3-year commitment to automatically renew in 1 year increments. The hourly rate will continue at your existing 3-year rate.
- Turn off a previously-enabled automatic renewal on a 1-year or 3-year commitment.

You cannot use the automatic-renewal option for a 60-day commitment.

For pricing, see [AWS Private 5G Pricing](#).

Type: [CommitmentConfiguration](#) object

Required: No

### networkResourceArn

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## returnReason

The reason for the return. Providing a reason for a return is optional.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

## shippingAddress

The shipping address. If you don't provide a shipping address when replacing or returning a network resource, we use the address from the original order for the network resource.

Type: [Address](#) object

Required: No

## updateType

The update type.

- REPLACE - Submits a request to replace a defective radio unit. We provide a shipping label that you can use for the return process and we ship a replacement radio unit to you.
- RETURN - Submits a request to return a radio unit that you no longer need. We provide a shipping label that you can use for the return process.
- COMMITMENT - Submits a request to change or renew the commitment period. If you choose this value, then you must set [commitmentConfiguration](#).

Type: String

Valid Values: REPLACE | RETURN | COMMITMENT

Required: Yes

## Response Syntax

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

{
  "networkResource": {
    "attributes": [
```

```
{
  "name": "string",
  "value": "string"
},
],
"commitmentInformation": {
  "commitmentConfiguration": {
    "automaticRenewal": boolean,
    "commitmentLength": "string"
  },
  "expiresOn": "string",
  "startAt": "string"
},
"createdAt": "string",
"description": "string",
"health": "string",
"model": "string",
"networkArn": "string",
"networkResourceArn": "string",
"networkSiteArn": "string",
"orderArn": "string",
"position": {
  "elevation": number,
  "elevationReference": "string",
  "elevationUnit": "string",
  "latitude": number,
  "longitude": number
},
"returnInformation": {
  "replacementOrderArn": "string",
  "returnReason": "string",
  "shippingAddress": {
    "city": "string",
    "company": "string",
    "country": "string",
    "emailAddress": "string",
    "name": "string",
    "phoneNumber": "string",
    "postalCode": "string",
    "stateOrProvince": "string",
    "street1": "string",
    "street2": "string",
    "street3": "string"
  }
},
```

```
    "shippingLabel": "string"  
  },  
  "serialNumber": "string",  
  "status": "string",  
  "statusReason": "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.

### networkResource

The network resource.

Type: [NetworkResource](#) object

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ValidationException**

The request failed validation.

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

Adds tags to the specified resource.

## Request Syntax

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

```
{  
  "tags": {  
    "string" : "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

The tags to add to the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

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 permission to perform this operation.

HTTP Status Code: 403

### InternalServerError

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429



## ValidationException

The request failed validation.

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 the 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.

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### tagKeys

The tag keys.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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 permission to perform this operation.

HTTP Status Code: 403

### **InternalServerErrorException**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request failed validation.

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](#)

# UpdateNetworkSite

Updates the specified network site.

## Request Syntax

```
PUT /v1/network-sites/site HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "description": "string",
  "networkSiteArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

### description

The description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

## networkSiteArn

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
    "createdAt": "string",
    "currentPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "resourceDefinitions": [
        {
          "count": number,
          "options": [
            {
              "name": "string",
              "value": "string"
            }
          ],
          "type": "string"
        }
      ]
    },
    "description": "string",
    "networkArn": "string",
    "networkSiteArn": "string",
```

```
"networkSiteName": "string",
"pendingPlan": {
  "options": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "resourceDefinitions": [
    {
      "count": number,
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "type": "string"
    }
  ]
},
"status": "string",
"statusReason": "string"
},
"tags": {
  "string" : "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

### tags

The network site tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### InternalServerErrorException

Information about an internal error.

HTTP Status Code: 500

### ResourceNotFoundException

The resource was not found.

HTTP Status Code: 404

### ValidationException

The request failed validation.

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](#)

# UpdateNetworkSitePlan

Updates the specified network site plan.

## Request Syntax

```
PUT /v1/network-sites/plan HTTP/1.1
Content-type: application/json
```

```
{
  "clientToken": "string",
  "networkSiteArn": "string",
  "pendingPlan": {
    "options": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## clientToken

Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see [How to ensure idempotency](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

## networkSiteArn

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

## pendingPlan

The pending plan.

Type: [SitePlan](#) object

Required: Yes

## Response Syntax

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

{
  "networkSite": {
    "availabilityZone": "string",
    "availabilityZoneId": "string",
    "createdAt": "string",
    "currentPlan": {
      "options": [
        {
          "name": "string",
          "value": "string"
        }
      ]
    }
  }
}
```

```
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  },
  "description": "string",
  "networkArn": "string",
  "networkSiteArn": "string",
  "networkSiteName": "string",
  "pendingPlan": {
    "options": [
      {
        "name": "string",
        "value": "string"
      }
    ],
    "resourceDefinitions": [
      {
        "count": number,
        "options": [
          {
            "name": "string",
            "value": "string"
          }
        ],
        "type": "string"
      }
    ]
  },
  "status": "string",
  "statusReason": "string"
},
"tags": {
  "string" : "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.

### networkSite

Information about the network site.

Type: [NetworkSite](#) object

### tags

The network site tags.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[^\x00-\x1f\x22]+$`

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

Value Pattern: `^[^\x00-\x1f\x22]*$`

## Errors

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

### **InternalServerError**

Information about an internal error.

HTTP Status Code: 500

### **ResourceNotFoundException**

The resource was not found.

HTTP Status Code: 404

## ValidationException

The request failed validation.

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 Private 5G 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:

- [Address](#)
- [CommitmentConfiguration](#)
- [CommitmentInformation](#)
- [DeviceIdentifier](#)
- [NameValuePair](#)
- [Network](#)
- [NetworkResource](#)
- [NetworkResourceDefinition](#)
- [NetworkSite](#)
- [Order](#)
- [OrderedResourceDefinition](#)
- [Position](#)
- [ReturnInformation](#)
- [SitePlan](#)
- [TrackingInformation](#)
- [ValidationExceptionField](#)

# Address

Information about an address.

## Contents

### city

The city for this address.

Type: String

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

Required: Yes

### country

The country for this address.

Type: String

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

Required: Yes

### name

The recipient's name for this address.

Type: String

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

Required: Yes

### postalCode

The postal code for this address.

Type: String

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

Required: Yes



**stateOrProvince**

The state or province for this address.

Type: String

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

Required: Yes

**street1**

The first line of the street address.

Type: String

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

Required: Yes

**company**

The company name for this address.

Type: String

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

Required: No

**emailAddress**

The recipient's email address.

Type: String

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

Required: No

**phoneNumber**

The recipient's phone number.

Type: String

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

Required: No

### **street2**

The second line of the street address.

Type: String

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

Required: No

### **street3**

The third line of the street address.

Type: String

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

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](#)

# CommitmentConfiguration

Determines the duration and renewal status of the commitment period for a radio unit.

For pricing, see [AWS Private 5G Pricing](#).

## Contents

### **automaticRenewal**

Determines whether the commitment period for a radio unit is set to automatically renew in 1 year increments after your current commitment period expires.

Set to `True`, if you want your commitment period to automatically renew. Set to `False` if you do not want your commitment to automatically renew.

You can do the following:

- Set a 1-year commitment to automatically renew. Your commitment will renew each year. The hourly rate will continue at your existing 1-year rate.
- Set a 3-year commitment to automatically renew in 1 year increments. The hourly rate will continue at your existing 3-year rate.
- Turn off a previously-enabled automatic renewal on a 1-year or 3-year commitment.

You cannot use the automatic-renewal option for a 60-day commitment.

Type: Boolean

Required: Yes

### **commitmentLength**

The duration of the commitment period for the radio unit. You can choose a 60-day, 1-year, or 3-year period.

Type: String

Valid Values: `SIXTY_DAYS` | `ONE_YEAR` | `THREE_YEARS`

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](#)

# CommitmentInformation

Shows the duration, the start and end date and time, and the renewal status of the commitment period for the radio unit.

## Contents

### commitmentConfiguration

The duration and renewal status of the commitment period for the radio unit.

Type: [CommitmentConfiguration](#) object

Required: Yes

### expiresOn

The date and time that the commitment period ends. When the commitment period ends, you will be billed at the pay-as-you-go rate.

Type: Timestamp

Required: No

### startAt

The date and time that the commitment period started.

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](#)

# DeviceIdentifier

Information about a subscriber of a device that can use a network.

## Contents

### **createdAt**

The creation time of this device identifier.

Type: Timestamp

Required: No

### **deviceIdentifierArn**

The Amazon Resource Name (ARN) of the device identifier.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **iccid**

The Integrated Circuit Card Identifier of the device identifier.

Type: String

Required: No

### **imsi**

The International Mobile Subscriber Identity of the device identifier.

Type: String

Pattern: `^[0-9]{15}$`

Required: No

### **networkArn**

The Amazon Resource Name (ARN) of the network on which the device identifier appears.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **orderArn**

The Amazon Resource Name (ARN) of the order used to purchase the device identifier.

Type: String

Required: No

### **status**

The status of the device identifier.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

### **trafficGroupArn**

The Amazon Resource Name (ARN) of the traffic group to which the device identifier belongs.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **vendor**

The vendor of the device identifier.

Type: String

Required: No

## **See Also**

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

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



# NameValuePair

Information about a name/value pair.

## Contents

### name

The name of the pair.

Type: String

Required: Yes

### value

The value of the pair.

Type: String

Required: No

## See Also

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

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

# Network

Information about a network.

## Contents

### **networkArn**

The Amazon Resource Name (ARN) of the network.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### **networkName**

The name of the network.

Type: String

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

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

Required: Yes

### **status**

The status of the network.

Type: String

Valid Values: `CREATED | PROVISIONING | AVAILABLE | DEPROVISIONING | DELETED`

Required: Yes

### **createdAt**

The creation time of the network.

Type: Timestamp

Required: No

**description**

The description of the network.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

**statusReason**

The status reason of the network.

Type: String

Required: No

**See Also**

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

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

# NetworkResource

Information about a network resource.

## Contents

### attributes

The attributes of the network resource.

Type: Array of [NameValuePair](#) objects

Required: No

### commitmentInformation

Information about the commitment period for the radio unit. Shows the duration, the date and time that the current period started and ends, and the renewal status of the commitment period.

Type: [CommitmentInformation](#) object

Required: No

### createdAt

The creation time of the network resource.

Type: Timestamp

Required: No

### description

The description of the network resource.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

### health

The health of the network resource.

Type: String

Valid Values: INITIAL | HEALTHY | UNHEALTHY

Required: No

### **model**

The model of the network resource.

Type: String

Required: No

### **networkArn**

The Amazon Resource Name (ARN) of the network on which this network resource appears.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **networkResourceArn**

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **networkSiteArn**

The Amazon Resource Name (ARN) of the network site on which this network resource appears.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **orderArn**

The Amazon Resource Name (ARN) of the order used to purchase this network resource.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **position**

The position of the network resource.

Type: [Position](#) object

Required: No

### **returnInformation**

Information about a request to return the network resource.

Type: [ReturnInformation](#) object

Required: No

### **serialNumber**

The serial number of the network resource.

Type: String

Required: No

### **status**

The status of the network resource.

Type: String

Valid Values: PENDING | SHIPPED | PROVISIONING | PROVISIONED | AVAILABLE | DELETING | PENDING\_RETURN | DELETED | CREATING\_SHIPPING\_LABEL

Required: No

### **statusReason**

The status reason of the network resource.

Type: String

Required: No

### **type**

The type of the network resource.

Type: String

Valid Values: RADIO\_UNIT

Required: No

### **vendor**

The vendor of the network resource.

Type: String

Required: No

## **See Also**

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

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

# NetworkResourceDefinition

Information about a network resource definition.

## Contents

### count

The count in the network resource definition.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The type in the network resource definition.

Type: String

Valid Values: RADIO\_UNIT | DEVICE\_IDENTIFIER

Required: Yes

### options

The options in the network resource definition.

Type: Array of [NameValuePair](#) 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](#)





# NetworkSite

Information about a network site.

## Contents

### networkArn

The Amazon Resource Name (ARN) of the network to which the network site belongs.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### networkSiteArn

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

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: Yes

### networkSiteName

The name of the network site.

Type: String

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

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

Required: Yes

### status

The status of the network site.

Type: String

Valid Values: `CREATED` | `PROVISIONING` | `AVAILABLE` | `DEPROVISIONING` | `DELETED`

Required: Yes

### **availabilityZone**

The parent Availability Zone for the network site.

Type: String

Required: No

### **availabilityZoneId**

The parent Availability Zone ID for the network site.

Type: String

Required: No

### **createdAt**

The creation time of the network site.

Type: Timestamp

Required: No

### **currentPlan**

The current plan of the network site.

Type: [SitePlan](#) object

Required: No

### **description**

The description of the network site.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

### **pendingPlan**

The pending plan of the network site.

Type: [SitePlan](#) object

Required: No

### **statusReason**

The status reason of the network site.

Type: String

Required: No

## **See Also**

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

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

# Order

Information about an order.

## Contents

### **acknowledgmentStatus**

The acknowledgement status of the order.

Type: String

Valid Values: ACKNOWLEDGING | ACKNOWLEDGED | UNACKNOWLEDGED

Required: No

### **createdAt**

The creation time of the order.

Type: Timestamp

Required: No

### **networkArn**

The Amazon Resource Name (ARN) of the network associated with this order.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### **networkSiteArn**

The Amazon Resource Name (ARN) of the network site associated with this order.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

## orderArn

The Amazon Resource Name (ARN) of the order.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

## orderedResources

A list of the network resources placed in the order.

Type: Array of [OrderedResourceDefinition](#) objects

Required: No

## shippingAddress

The shipping address of the order.

Type: [Address](#) object

Required: No

## trackingInformation

The tracking information of the order.

Type: Array of [TrackingInformation](#) 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](#)

# OrderedResourceDefinition

Details of the network resources in the order.

## Contents

### count

The number of network resources in the order.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### type

The type of network resource in the order.

Type: String

Valid Values: RADIO\_UNIT | DEVICE\_IDENTIFIER

Required: Yes

### commitmentConfiguration

The duration and renewal status of the commitment period for each radio unit in the order. Does not show details if the resource type is DEVICE\_IDENTIFIER.

Type: [CommitmentConfiguration](#) 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](#)



# Position

Information about a position.

## Contents

### elevation

The elevation of the equipment at this position.

Type: Double

Required: No

### elevationReference

The reference point from which elevation is reported.

Type: String

Valid Values: AGL | AMSL

Required: No

### elevationUnit

The units used to measure the elevation of the position.

Type: String

Valid Values: FEET

Required: No

### latitude

The latitude of the position.

Type: Double

Required: No

### longitude

The longitude of the position.

Type: Double

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](#)

# ReturnInformation

Information about a request to return a network resource.

## Contents

### replacementOrderArn

The Amazon Resource Name (ARN) of the replacement order.

Type: String

Pattern: `^arn:aws:private-networks:[a-z0-9-]+:[^:]*:.*$`

Required: No

### returnReason

The reason for the return. If the return request did not include a reason for the return, this value is null.

Type: String

Required: No

### shippingAddress

The shipping address.

Type: [Address](#) object

Required: No

### shippingLabel

The URL of the shipping label. The shipping label is available for download only if the status of the network resource is `PENDING_RETURN`. For more information, see [Return a radio unit](#).

Type: String

Required: No

## See Also

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

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

# SitePlan

Information about a site plan.

## Contents

### options

The options of the plan.

Type: Array of [NameValuePair](#) objects

Required: No

### resourceDefinitions

The resource definitions of the plan.

Type: Array of [NetworkResourceDefinition](#) 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](#)

# TrackingInformation

Information about tracking a shipment.

## Contents

### trackingNumber

The tracking number of the shipment.

Type: String

Required: No

## See Also

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

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

# ValidationExceptionField

Information about a field that failed validation.

## Contents

### message

The message about the validation failure.

Type: String

Required: Yes

### name

The field name that failed validation.

Type: String

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for 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