
AWS Ground Station

API Reference

API Version 2019-05-23



AWS Ground Station: API Reference

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Table of Contents

Welcome	1
Actions	2
CancelContact	3
Request Syntax	3
URI Request Parameters	3
Request Body	3
Response Syntax	3
Response Elements	3
Errors	3
See Also	4
CreateConfig	5
Request Syntax	5
URI Request Parameters	6
Request Body	6
Response Syntax	6
Response Elements	7
Errors	7
See Also	7
CreateDataflowEndpointGroup	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	10
Response Elements	10
Errors	10
See Also	10
CreateMissionProfile	12
Request Syntax	12
URI Request Parameters	12
Request Body	12
Response Syntax	13
Response Elements	13
Errors	14
See Also	14
DeleteConfig	15
Request Syntax	15
URI Request Parameters	15
Request Body	15
Response Syntax	15
Response Elements	15
Errors	16
See Also	16
DeleteDataflowEndpointGroup	17
Request Syntax	17
URI Request Parameters	17
Request Body	17
Response Syntax	17
Response Elements	17
Errors	17
See Also	18
DeleteMissionProfile	19
Request Syntax	19
URI Request Parameters	19
Request Body	19

Response Syntax	19
Response Elements	19
Errors	19
See Also	20
DescribeContact	21
Request Syntax	21
URI Request Parameters	21
Request Body	21
Response Syntax	21
Response Elements	22
Errors	24
See Also	24
GetConfig	25
Request Syntax	25
URI Request Parameters	25
Request Body	25
Response Syntax	25
Response Elements	26
Errors	27
See Also	27
GetDataflowEndpointGroup	29
Request Syntax	29
URI Request Parameters	29
Request Body	29
Response Syntax	29
Response Elements	29
Errors	30
See Also	30
GetMinuteUsage	32
Request Syntax	32
URI Request Parameters	32
Request Body	32
Response Syntax	32
Response Elements	32
Errors	33
See Also	33
GetMissionProfile	35
Request Syntax	35
URI Request Parameters	35
Request Body	35
Response Syntax	35
Response Elements	35
Errors	37
See Also	37
GetSatellite	38
Request Syntax	38
URI Request Parameters	38
Request Body	38
Response Syntax	38
Response Elements	38
Errors	39
See Also	39
ListConfigs	40
Request Syntax	40
URI Request Parameters	40
Request Body	40
Response Syntax	40

Response Elements	40
Errors	41
See Also	41
ListContacts	42
Request Syntax	42
URI Request Parameters	42
Request Body	42
Response Syntax	43
Response Elements	44
Errors	44
See Also	44
ListDataflowEndpointGroups	46
Request Syntax	46
URI Request Parameters	46
Request Body	46
Response Syntax	46
Response Elements	46
Errors	47
See Also	47
ListGroundStations	48
Request Syntax	48
URI Request Parameters	48
Request Body	48
Response Syntax	48
Response Elements	48
Errors	49
See Also	49
ListMissionProfiles	50
Request Syntax	50
URI Request Parameters	50
Request Body	50
Response Syntax	50
Response Elements	50
Errors	51
See Also	51
ListSatellites	52
Request Syntax	52
URI Request Parameters	52
Request Body	52
Response Syntax	52
Response Elements	52
Errors	53
See Also	53
ListTagsForResource	54
Request Syntax	54
URI Request Parameters	54
Request Body	54
Response Syntax	54
Response Elements	54
Errors	54
See Also	55
ReserveContact	56
Request Syntax	56
URI Request Parameters	56
Request Body	56
Response Syntax	57
Response Elements	57

Errors	57
See Also	58
TagResource	59
Request Syntax	59
URI Request Parameters	59
Request Body	59
Response Syntax	59
Response Elements	59
Errors	59
See Also	60
UntagResource	61
Request Syntax	61
URI Request Parameters	61
Request Body	61
Response Syntax	61
Response Elements	61
Errors	61
See Also	62
UpdateConfig	63
Request Syntax	63
URI Request Parameters	64
Request Body	64
Response Syntax	64
Response Elements	65
Errors	65
See Also	65
UpdateMissionProfile	67
Request Syntax	67
URI Request Parameters	67
Request Body	67
Response Syntax	68
Response Elements	68
Errors	69
See Also	69
Data Types	70
AntennaDemodDecodeDetails	71
Contents	71
See Also	71
AntennaDownlinkConfig	72
Contents	72
See Also	72
AntennaDownlinkDemodDecodeConfig	73
Contents	73
See Also	73
AntennaUplinkConfig	74
Contents	74
See Also	74
ConfigDetails	75
Contents	75
See Also	75
ConfigListItem	76
Contents	76
See Also	76
ConfigTypeData	77
Contents	77
See Also	78
ContactData	79

Contents	79
See Also	80
DataflowDetail	81
Contents	81
See Also	81
DataflowEndpoint	82
Contents	82
See Also	82
DataflowEndpointConfig	83
Contents	83
See Also	83
DataflowEndpointListItem	84
Contents	84
See Also	84
DecodeConfig	85
Contents	85
See Also	85
DemodulationConfig	86
Contents	86
See Also	86
Destination	87
Contents	87
See Also	87
Eirp	88
Contents	88
See Also	88
Elevation	89
Contents	89
See Also	89
EndpointDetails	90
Contents	90
See Also	90
Frequency	91
Contents	91
See Also	91
FrequencyBandwidth	92
Contents	92
See Also	92
GroundStationData	93
Contents	93
See Also	93
MissionProfileListItem	94
Contents	94
See Also	94
SatelliteListItem	95
Contents	95
See Also	95
SecurityDetails	96
Contents	96
See Also	96
SocketAddress	97
Contents	97
See Also	97
Source	98
Contents	98
See Also	98
SpectrumConfig	99

Contents	99
See Also	99
TrackingConfig	100
Contents	100
See Also	100
UplinkEchoConfig	101
Contents	101
See Also	101
UplinkSpectrumConfig	102
Contents	102
See Also	102
Common Parameters	103
Common Errors	105

Welcome

Welcome to the AWS Ground Station API Reference. AWS Ground Station is a fully managed service that enables you to control satellite communications, downlink and process satellite data, and scale your satellite operations efficiently and cost-effectively without having to build or manage your own ground station infrastructure.

This document was last published on October 21, 2020.

Actions

The following actions are supported:

- [CancelContact](#) (p. 3)
- [CreateConfig](#) (p. 5)
- [CreateDataflowEndpointGroup](#) (p. 9)
- [CreateMissionProfile](#) (p. 12)
- [DeleteConfig](#) (p. 15)
- [DeleteDataflowEndpointGroup](#) (p. 17)
- [DeleteMissionProfile](#) (p. 19)
- [DescribeContact](#) (p. 21)
- [GetConfig](#) (p. 25)
- [GetDataflowEndpointGroup](#) (p. 29)
- [GetMinuteUsage](#) (p. 32)
- [GetMissionProfile](#) (p. 35)
- [GetSatellite](#) (p. 38)
- [ListConfigs](#) (p. 40)
- [ListContacts](#) (p. 42)
- [ListDataflowEndpointGroups](#) (p. 46)
- [ListGroundStations](#) (p. 48)
- [ListMissionProfiles](#) (p. 50)
- [ListSatellites](#) (p. 52)
- [ListTagsForResource](#) (p. 54)
- [ReserveContact](#) (p. 56)
- [TagResource](#) (p. 59)
- [UntagResource](#) (p. 61)
- [UpdateConfig](#) (p. 63)
- [UpdateMissionProfile](#) (p. 67)

CancelContact

Cancels a contact with a specified contact ID.

Request Syntax

```
DELETE /contact/contactId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

contactId (p. 3)

UUID of a contact.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

contactId (p. 3)

UUID of a contact.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

CreateConfig

Creates a Config with the specified configData parameters.

Only one type of configData can be specified.

Request Syntax

```

POST /config HTTP/1.1
Content-type: application/json

{
  "configData": {
    "antennaDownlinkConfig": {
      "spectrumConfig": {
        "bandwidth": {
          "units": "string",
          "value": number
        },
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      }
    },
    "antennaDownlinkDemodDecodeConfig": {
      "decodeConfig": {
        "unvalidatedJSON": "string"
      },
      "demodulationConfig": {
        "unvalidatedJSON": "string"
      },
      "spectrumConfig": {
        "bandwidth": {
          "units": "string",
          "value": number
        },
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      }
    },
    "antennaUplinkConfig": {
      "spectrumConfig": {
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      },
      "targetEirp": {
        "units": "string",
        "value": number
      },
      "transmitDisabled": boolean
    },
    "dataflowEndpointConfig": {
      "dataflowEndpointName": "string",
      "dataflowEndpointRegion": "string"
    }
  }
}

```

```
    },
    "trackingConfig": {
      "autotrack": "string"
    },
    "uplinkEchoConfig": {
      "antennaUplinkConfigArn": "string",
      "enabled": boolean
    }
  },
  "name": "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.

configData (p. 5)

Parameters of a Config.

Type: [ConfigTypeData](#) (p. 77) object

Required: Yes

name (p. 5)

Name of a Config.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9_:-]{1,256}$`

Required: Yes

tags (p. 5)

Tags assigned to a Config.

Type: String to string map

Required: No

Response Syntax

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

{
  "configArn": "string",
  "configId": "string",
  "configType": "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.

configArn (p. 6)

ARN of a Config.

Type: String

configId (p. 6)

UUID of a Config.

Type: String

configType (p. 6)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceLimitExceededException

Account limits for this resource have been exceeded.

HTTP Status Code: 429

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

CreateDataflowEndpointGroup

Creates a DataflowEndpoint group containing the specified list of DataflowEndpoint objects.

The name field in each endpoint is used in your mission profile DataflowEndpointConfig to specify which endpoints to use during a contact.

When a contact uses multiple DataflowEndpointConfig objects, each Config must match a DataflowEndpoint in the same group.

Request Syntax

```
POST /dataflowEndpointGroup HTTP/1.1
Content-type: application/json

{
  "endpointDetails": [
    {
      "endpoint": {
        "address": {
          "name": "string",
          "port": number
        },
        "mtu": number,
        "name": "string",
        "status": "string"
      },
      "securityDetails": {
        "roleArn": "string",
        "securityGroupIds": [ "string" ],
        "subnetIds": [ "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.

endpointDetails (p. 9)

Endpoint details of each endpoint in the dataflow endpoint group.

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

Required: Yes

tags (p. 9)

Tags of a dataflow endpoint group.

Type: String to string map

Required: No

Response Syntax

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

{
  "dataflowEndpointGroupId": "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.

dataflowEndpointGroupId (p. 10)

UUID of a dataflow endpoint group.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

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

CreateMissionProfile

Creates a mission profile.

`dataflowEdges` is a list of lists of strings. Each lower level list of strings has two elements: a *from* ARN and a *to* ARN.

Request Syntax

```
POST /missionprofile HTTP/1.1
Content-type: application/json

{
  "contactPostPassDurationSeconds": number,
  "contactPrePassDurationSeconds": number,
  "dataflowEdges": [
    [ "string" ]
  ],
  "minimumViableContactDurationSeconds": number,
  "name": "string",
  "tags": {
    "string" : "string"
  },
  "trackingConfigArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

contactPostPassDurationSeconds (p. 12)

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: No

contactPrePassDurationSeconds (p. 12)

Amount of time prior to contact start you'd like to receive a CloudWatch event indicating an upcoming pass.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: No

dataflowEdges (p. 12)

A list of lists of ARNs. Each list of ARNs is an edge, with a *from* Config and a *to* Config.

Type: Array of arrays of strings

Array Members: Fixed number of 2 items.

Required: Yes

minimumViableContactDurationSeconds (p. 12)

Smallest amount of time in seconds that you'd like to see for an available contact. AWS Ground Station will not present you with contacts shorter than this duration.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: Yes

name (p. 12)

Name of a mission profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9_:-]{1,256}$`

Required: Yes

tags (p. 12)

Tags assigned to a mission profile.

Type: String to string map

Required: No

trackingConfigArn (p. 12)

ARN of a tracking Config.

Type: String

Required: Yes

Response Syntax

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

{
  "missionProfileId": "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.

missionProfileId (p. 13)

UUID of a mission profile.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

DeleteConfig

Deletes a Config.

Request Syntax

```
DELETE /config/configType/configId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configId (p. 15)

UUID of a Config.

Required: Yes

configType (p. 15)

Type of a Config.

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "configArn": "string",  
  "configId": "string",  
  "configType": "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.

configArn (p. 15)

ARN of a Config.

Type: String

configId (p. 15)

UUID of a Config.

Type: String

configType (p. 15)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

DeleteDataflowEndpointGroup

Deletes a dataflow endpoint group.

Request Syntax

```
DELETE /dataflowEndpointGroup/dataflowEndpointGroupId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

dataflowEndpointGroupId (p. 17)

UUID of a dataflow endpoint group.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "dataflowEndpointGroupId": "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.

dataflowEndpointGroupId (p. 17)

UUID of a dataflow endpoint group.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

DeleteMissionProfile

Deletes a mission profile.

Request Syntax

```
DELETE /missionprofile/missionProfileId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

missionProfileId (p. 19)

UUID of a mission profile.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

missionProfileId (p. 19)

UUID of a mission profile.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

DescribeContact

Describes an existing contact.

Request Syntax

```
GET /contact/contactId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

contactId (p. 21)

UUID of a contact.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "contactId": "string",
  "contactStatus": "string",
  "dataflowList": [
    {
      "destination": {
        "configDetails": {
          "antennaDemodDecodeDetails": {
            "outputNode": "string"
          },
          "endpointDetails": {
            "endpoint": {
              "address": {
                "name": "string",
                "port": number
              },
              "mtu": number,
              "name": "string",
              "status": "string"
            },
            "securityDetails": {
              "roleArn": "string",
              "securityGroupIds": [ "string" ],
              "subnetIds": [ "string" ]
            }
          }
        },
        "configId": "string",
        "configType": "string",
        "dataflowDestinationRegion": "string"
      }
    }
  ]
}
```

```

    },
    "source": {
      "configDetails": {
        "antennaDemodDecodeDetails": {
          "outputNode": "string"
        },
        "endpointDetails": {
          "endpoint": {
            "address": {
              "name": "string",
              "port": number
            },
            "mtu": number,
            "name": "string",
            "status": "string"
          },
          "securityDetails": {
            "roleArn": "string",
            "securityGroupIds": [ "string" ],
            "subnetIds": [ "string" ]
          }
        },
        "configId": "string",
        "configType": "string",
        "dataflowSourceRegion": "string"
      }
    },
    "endTime": number,
    "errorMessage": "string",
    "groundStation": "string",
    "maximumElevation": {
      "unit": "string",
      "value": number
    },
    "missionProfileArn": "string",
    "postPassEndTime": number,
    "prePassStartTime": number,
    "region": "string",
    "satelliteArn": "string",
    "startTime": number,
    "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.

[contactId \(p. 21\)](#)

UUID of a contact.

Type: String

[contactStatus \(p. 21\)](#)

Status of a contact.

Type: String

Valid Values: AVAILABLE | AWS_CANCELLED | CANCELLED | CANCELLING | COMPLETED
| FAILED | FAILED_TO_SCHEDULE | PASS | POSTPASS | PREPASS | SCHEDULED |
SCHEDULING

[dataflowList \(p. 21\)](#)

List describing source and destination details for each dataflow edge.

Type: Array of [DataflowDetail \(p. 81\)](#) objects

[endTime \(p. 21\)](#)

End time of a contact.

Type: Timestamp

[errorMessage \(p. 21\)](#)

Error message for a contact.

Type: String

[groundStation \(p. 21\)](#)

Ground station for a contact.

Type: String

[maximumElevation \(p. 21\)](#)

Maximum elevation angle of a contact.

Type: [Elevation \(p. 89\)](#) object

[missionProfileArn \(p. 21\)](#)

ARN of a mission profile.

Type: String

[postPassEndTime \(p. 21\)](#)

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Timestamp

[prePassStartTime \(p. 21\)](#)

Amount of time prior to contact start you'd like to receive a CloudWatch event indicating an upcoming pass.

Type: Timestamp

[region \(p. 21\)](#)

Region of a contact.

Type: String

[satelliteArn \(p. 21\)](#)

ARN of a satellite.

Type: String

[startTime \(p. 21\)](#)

Start time of a contact.

Type: Timestamp

tags (p. 21)

Tags assigned to a contact.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

GetConfig

Returns Config information.

Only one Config response can be returned.

Request Syntax

```
GET /config/configType/configId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

configId (p. 25)

UUID of a Config.

Required: Yes

configType (p. 25)

Type of a Config.

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "configArn": "string",
  "configData": {
    "antennaDownlinkConfig": {
      "spectrumConfig": {
        "bandwidth": {
          "units": "string",
          "value": number
        },
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      },
      "antennaDownlinkDemodDecodeConfig": {
```

```

    "decodeConfig": {
      "unvalidatedJSON": "string"
    },
    "demodulationConfig": {
      "unvalidatedJSON": "string"
    },
    "spectrumConfig": {
      "bandwidth": {
        "units": "string",
        "value": number
      },
      "centerFrequency": {
        "units": "string",
        "value": number
      },
      "polarization": "string"
    }
  },
  "antennaUplinkConfig": {
    "spectrumConfig": {
      "centerFrequency": {
        "units": "string",
        "value": number
      },
      "polarization": "string"
    },
    "targetEirp": {
      "units": "string",
      "value": number
    },
    "transmitDisabled": boolean
  },
  "dataflowEndpointConfig": {
    "dataflowEndpointName": "string",
    "dataflowEndpointRegion": "string"
  },
  "trackingConfig": {
    "autotrack": "string"
  },
  "uplinkEchoConfig": {
    "antennaUplinkConfigArn": "string",
    "enabled": boolean
  }
},
"configId": "string",
"configType": "string",
"name": "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.

[configArn \(p. 25\)](#)

ARN of a Config

Type: String

[configData \(p. 25\)](#)

Data elements in a Config.

Type: [ConfigTypeData \(p. 77\)](#) object

[configId \(p. 25\)](#)

UUID of a Config.

Type: String

[configType \(p. 25\)](#)

Type of a Config.

Type: String

Valid Values: `antenna-downlink` | `antenna-downlink-demod-decode` | `antenna-uplink`
| `dataflow-endpoint` | `tracking` | `uplink-echo`

[name \(p. 25\)](#)

Name of a Config.

Type: String

[tags \(p. 25\)](#)

Tags assigned to a Config.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

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

GetDataflowEndpointGroup

Returns the dataflow endpoint group.

Request Syntax

```
GET /dataflowEndpointGroup/dataflowEndpointGroupId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

dataflowEndpointGroupId (p. 29)

UUID of a dataflow endpoint group.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "dataflowEndpointGroupArn": "string",
  "dataflowEndpointGroupId": "string",
  "endpointsDetails": [
    {
      "endpoint": {
        "address": {
          "name": "string",
          "port": number
        },
        "mtu": number,
        "name": "string",
        "status": "string"
      },
      "securityDetails": {
        "roleArn": "string",
        "securityGroupIds": [ "string" ],
        "subnetIds": [ "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.

[dataflowEndpointGroupArn \(p. 29\)](#)

ARN of a dataflow endpoint group.

Type: String

[dataflowEndpointGroupId \(p. 29\)](#)

UUID of a dataflow endpoint group.

Type: String

[endpointsDetails \(p. 29\)](#)

Details of a dataflow endpoint.

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

[tags \(p. 29\)](#)

Tags assigned to a dataflow endpoint group.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

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

GetMinuteUsage

Returns the number of minutes used by account.

Request Syntax

```
POST /minute-usage HTTP/1.1
Content-type: application/json

{
  "month": number,
  "year": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[month \(p. 32\)](#)

The month being requested, with a value of 1-12.

Type: Integer

Required: Yes

[year \(p. 32\)](#)

The year being requested, in the format of YYYY.

Type: Integer

Required: Yes

Response Syntax

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

{
  "estimatedMinutesRemaining": number,
  "isReservedMinutesCustomer": boolean,
  "totalReservedMinuteAllocation": number,
  "totalScheduledMinutes": number,
  "upcomingMinutesScheduled": number
}
```

Response Elements

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

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

[estimatedMinutesRemaining \(p. 32\)](#)

Estimated number of minutes remaining for an account, specific to the month being requested.

Type: Integer

[isReservedMinutesCustomer \(p. 32\)](#)

Returns whether or not an account has signed up for the reserved minutes pricing plan, specific to the month being requested.

Type: Boolean

[totalReservedMinuteAllocation \(p. 32\)](#)

Total number of reserved minutes allocated, specific to the month being requested.

Type: Integer

[totalScheduledMinutes \(p. 32\)](#)

Total scheduled minutes for an account, specific to the month being requested.

Type: Integer

[upcomingMinutesScheduled \(p. 32\)](#)

Upcoming minutes scheduled for an account, specific to the month being requested.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

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

GetMissionProfile

Returns a mission profile.

Request Syntax

```
GET /missionprofile/missionProfileId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

missionProfileId (p. 35)

UUID of a mission profile.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "contactPostPassDurationSeconds": number,
  "contactPrePassDurationSeconds": number,
  "dataflowEdges": [
    [ string ]
  ],
  "minimumViableContactDurationSeconds": number,
  "missionProfileArn": "string",
  "missionProfileId": "string",
  "name": "string",
  "region": "string",
  "tags": {
    "string" : "string"
  },
  "trackingConfigArn": "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.

contactPostPassDurationSeconds (p. 35)

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

[contactPrePassDurationSeconds \(p. 35\)](#)

Amount of time prior to contact start you'd like to receive a CloudWatch event indicating an upcoming pass.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

[dataflowEdges \(p. 35\)](#)

A list of lists of ARNs. Each list of ARNs is an edge, with a *from* Config and a *to* Config.

Type: Array of arrays of strings

Array Members: Fixed number of 2 items.

[minimumViableContactDurationSeconds \(p. 35\)](#)

Smallest amount of time in seconds that you'd like to see for an available contact. AWS Ground Station will not present you with contacts shorter than this duration.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

[missionProfileArn \(p. 35\)](#)

ARN of a mission profile.

Type: String

[missionProfileId \(p. 35\)](#)

UUID of a mission profile.

Type: String

[name \(p. 35\)](#)

Name of a mission profile.

Type: String

[region \(p. 35\)](#)

Region of a mission profile.

Type: String

[tags \(p. 35\)](#)

Tags assigned to a mission profile.

Type: String to string map

[trackingConfigArn \(p. 35\)](#)

ARN of a tracking Config.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

GetSatellite

Returns a satellite.

Request Syntax

```
GET /satellite/satelliteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

satelliteId (p. 38)

UUID of a satellite.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "groundStations": [ "string" ],
  "noradSatelliteID": number,
  "satelliteArn": "string",
  "satelliteId": "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.

groundStations (p. 38)

A list of ground stations to which the satellite is on-boarded.

Type: Array of strings

noradSatelliteID (p. 38)

NORAD satellite ID number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 99999.

[satelliteArn \(p. 38\)](#)

ARN of a satellite.

Type: String

[satelliteId \(p. 38\)](#)

UUID of a satellite.

Type: String

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

Pattern: `[a-zA-Z0-9]{8}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{12}`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListConfigs

Returns a list of Config objects.

Request Syntax

```
GET /config?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 40)

Maximum number of Configs returned.

nextToken (p. 40)

Next token returned in the request of a previous ListConfigs call. Used to get the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "configList": [
    {
      "configArn": "string",
      "configId": "string",
      "configType": "string",
      "name": "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.

configList (p. 40)

List of Config items.

Type: Array of [ConfigListItem](#) (p. 76) objects

[nextToken \(p. 40\)](#)

Next token returned in the response of a previous `ListConfigs` call. Used to get the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListContacts

Returns a list of contacts.

If `statusList` contains `AVAILABLE`, the request must include `groundStation`, `missionprofileArn`, and `satelliteArn`.

Request Syntax

```
POST /contacts HTTP/1.1
Content-type: application/json

{
  "endTime": number,
  "groundStation": "string",
  "maxResults": number,
  "missionProfileArn": "string",
  "nextToken": "string",
  "satelliteArn": "string",
  "startTime": number,
  "statusList": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

endTime (p. 42)

End time of a contact.

Type: Timestamp

Required: Yes

groundStation (p. 42)

Name of a ground station.

Type: String

Required: No

maxResults (p. 42)

Maximum number of contacts returned.

Type: Integer

Required: No

missionProfileArn (p. 42)

ARN of a mission profile.

Type: String

Required: No

nextToken (p. 42)

Next token returned in the request of a previous `ListContacts` call. Used to get the next page of results.

Type: String

Required: No

satelliteArn (p. 42)

ARN of a satellite.

Type: String

Required: No

startTime (p. 42)

Start time of a contact.

Type: Timestamp

Required: Yes

statusList (p. 42)

Status of a contact reservation.

Type: Array of strings

Valid Values: AVAILABLE | AWS_CANCELLED | CANCELLED | CANCELLING | COMPLETED | FAILED | FAILED_TO_SCHEDULE | PASS | POSTPASS | PREPASS | SCHEDULED | SCHEDULING

Required: Yes

Response Syntax

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

{
  "contactList": [
    {
      "contactId": "string",
      "contactStatus": "string",
      "endTime": number,
      "errorMessage": "string",
      "groundStation": "string",
      "maximumElevation": {
        "unit": "string",
        "value": number
      },
      "missionProfileArn": "string",
      "postPassEndTime": number,
      "prePassStartTime": number,
      "region": "string",
      "satelliteArn": "string",
      "startTime": number,
      "tags": {
        "string": "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.

contactList (p. 43)

List of contacts.

Type: Array of [ContactData](#) (p. 79) objects

nextToken (p. 43)

Next token returned in the response of a previous `ListContacts` call. Used to get the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 105).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

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

ListDataflowEndpointGroups

Returns a list of `DataflowEndpoint` groups.

Request Syntax

```
GET /dataflowEndpointGroup?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

`maxResults` (p. 46)

Maximum number of dataflow endpoint groups returned.

`nextToken` (p. 46)

Next token returned in the request of a previous `ListDataflowEndpointGroups` call. Used to get the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "dataflowEndpointGroupList": [
    {
      "dataflowEndpointGroupArn": "string",
      "dataflowEndpointGroupId": "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.

`dataflowEndpointGroupList` (p. 46)

A list of dataflow endpoint groups.

Type: Array of `DataflowEndpointListItem` (p. 84) objects

`nextToken` (p. 46)

Next token returned in the response of a previous `ListDataflowEndpointGroups` call. Used to get the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListGroundStations

Returns a list of ground stations.

Request Syntax

```
GET /groundstation?maxResults=maxResults&nextToken=nextToken&satelliteId=satelliteId
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults \(p. 48\)](#)

Maximum number of ground stations returned.

[nextToken \(p. 48\)](#)

Next token that can be supplied in the next call to get the next page of ground stations.

[satelliteId \(p. 48\)](#)

Satellite ID to retrieve on-boarded ground stations.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "groundStationList": [
    {
      "groundStationId": "string",
      "groundStationName": "string",
      "region": "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.

[groundStationList \(p. 48\)](#)

List of ground stations.

Type: Array of [GroundStationData \(p. 93\)](#) objects
[nextToken \(p. 48\)](#)

Next token that can be supplied in the next call to get the next page of ground stations.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListMissionProfiles

Returns a list of mission profiles.

Request Syntax

```
GET /missionprofile?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 50)

Maximum number of mission profiles returned.

nextToken (p. 50)

Next token returned in the request of a previous `ListMissionProfiles` call. Used to get the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "missionProfileList": [
    {
      "missionProfileArn": "string",
      "missionProfileId": "string",
      "name": "string",
      "region": "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.

missionProfileList (p. 50)

List of mission profiles.

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

[nextToken \(p. 50\)](#)

Next token returned in the response of a previous `ListMissionProfiles` call. Used to get the next page of results.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListSatellites

Returns a list of satellites.

Request Syntax

```
GET /satellite?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 52)

Maximum number of satellites returned.

nextToken (p. 52)

Next token that can be supplied in the next call to get the next page of satellites.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "satellites": [
    {
      "groundStations": [ "string" ],
      "noradSatelliteID": number,
      "satelliteArn": "string",
      "satelliteId": "string"
    }
  ]
}
```

Response Elements

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

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

nextToken (p. 52)

Next token that can be supplied in the next call to get the next page of satellites.

Type: String

satellites (p. 52)

List of satellites.

Type: Array of [SatelliteListItem](#) (p. 95) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 105).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ListTagsForResource

Returns a list of tags for a specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 54)

ARN of a resource.

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 (p. 54)

Tags assigned to a resource.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

ReserveContact

Reserves a contact using specified parameters.

Request Syntax

```
POST /contact HTTP/1.1
Content-type: application/json

{
  "endTime": number,
  "groundStation": "string",
  "missionProfileArn": "string",
  "satelliteArn": "string",
  "startTime": number,
  "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.

endTime (p. 56)

End time of a contact.

Type: Timestamp

Required: Yes

groundStation (p. 56)

Name of a ground station.

Type: String

Required: Yes

missionProfileArn (p. 56)

ARN of a mission profile.

Type: String

Required: Yes

satelliteArn (p. 56)

ARN of a satellite

Type: String

Required: Yes

[startTime \(p. 56\)](#)

Start time of a contact.

Type: Timestamp

Required: Yes

[tags \(p. 56\)](#)

Tags assigned to a contact.

Type: String to string map

Required: No

Response Syntax

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

{
  "contactId": "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.

[contactId \(p. 57\)](#)

UUID of a contact.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

TagResource

Assigns a tag to a 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 (p. 59)

ARN of a resource tag.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 59)

Tags assigned to a resource.

Type: String to string map

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

UntagResource

Deassigns a resource tag.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 61)

ARN of a resource.

Required: Yes

tagKeys (p. 61)

Keys of a resource tag.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

UpdateConfig

Updates the Config used when scheduling contacts.

Updating a Config will not update the execution parameters for existing future contacts scheduled with this Config.

Request Syntax

```
PUT /config/configType/configId HTTP/1.1
Content-type: application/json

{
  "configData": {
    "antennaDownlinkConfig": {
      "spectrumConfig": {
        "bandwidth": {
          "units": "string",
          "value": number
        },
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      }
    },
    "antennaDownlinkDemodDecodeConfig": {
      "decodeConfig": {
        "unvalidatedJSON": "string"
      },
      "demodulationConfig": {
        "unvalidatedJSON": "string"
      },
      "spectrumConfig": {
        "bandwidth": {
          "units": "string",
          "value": number
        },
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      }
    },
    "antennaUplinkConfig": {
      "spectrumConfig": {
        "centerFrequency": {
          "units": "string",
          "value": number
        },
        "polarization": "string"
      },
      "targetEirp": {
        "units": "string",
        "value": number
      },
      "transmitDisabled": boolean
    },
    "dataflowEndpointConfig": {
      "dataflowEndpointName": "string",

```

```
    "dataflowEndpointRegion": "string"
  },
  "trackingConfig": {
    "autotrack": "string"
  },
  "uplinkEchoConfig": {
    "antennaUplinkConfigArn": "string",
    "enabled": boolean
  }
},
"name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configId (p. 63)

UUID of a Config.

Required: Yes

configType (p. 63)

Type of a Config.

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Required: Yes

Request Body

The request accepts the following data in JSON format.

configData (p. 63)

Parameters of a Config.

Type: [ConfigTypeData](#) (p. 77) object

Required: Yes

name (p. 63)

Name of a Config.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9_:-]{1,256}$`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "configArn": "string",
  "configId": "string",
  "configType": "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.

configArn (p. 64)

ARN of a Config.

Type: String

configId (p. 64)

UUID of a Config.

Type: String

configType (p. 64)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 105).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

UpdateMissionProfile

Updates a mission profile.

Updating a mission profile will not update the execution parameters for existing future contacts.

Request Syntax

```
PUT /missionprofile/missionProfileId HTTP/1.1
Content-type: application/json

{
  "contactPostPassDurationSeconds": number,
  "contactPrePassDurationSeconds": number,
  "dataflowEdges": [
    [ "string" ]
  ],
  "minimumViableContactDurationSeconds": number,
  "name": "string",
  "trackingConfigArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

missionProfileId (p. 67)

UUID of a mission profile.

Required: Yes

Request Body

The request accepts the following data in JSON format.

contactPostPassDurationSeconds (p. 67)

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: No

contactPrePassDurationSeconds (p. 67)

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: No

dataflowEdges (p. 67)

A list of lists of ARNs. Each list of ARNs is an edge, with a *from* Config and a *to* Config.

Type: Array of arrays of strings

Array Members: Fixed number of 2 items.

Required: No

minimumViableContactDurationSeconds (p. 67)

Smallest amount of time in seconds that you'd like to see for an available contact. AWS Ground Station will not present you with contacts shorter than this duration.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 21600.

Required: No

name (p. 67)

Name of a mission profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9_-]{1,256}$`

Required: No

trackingConfigArn (p. 67)

ARN of a tracking Config.

Type: String

Required: No

Response Syntax

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

{
  "missionProfileId": "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.

missionProfileId (p. 68)

UUID of a mission profile.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 105\)](#).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Data Types

The AWS Ground Station 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:

- [AntennaDemodDecodeDetails](#) (p. 71)
- [AntennaDownlinkConfig](#) (p. 72)
- [AntennaDownlinkDemodDecodeConfig](#) (p. 73)
- [AntennaUplinkConfig](#) (p. 74)
- [ConfigDetails](#) (p. 75)
- [ConfigListItem](#) (p. 76)
- [ConfigTypeData](#) (p. 77)
- [ContactData](#) (p. 79)
- [DataflowDetail](#) (p. 81)
- [DataflowEndpoint](#) (p. 82)
- [DataflowEndpointConfig](#) (p. 83)
- [DataflowEndpointListItem](#) (p. 84)
- [DecodeConfig](#) (p. 85)
- [DemodulationConfig](#) (p. 86)
- [Destination](#) (p. 87)
- [Eirp](#) (p. 88)
- [Elevation](#) (p. 89)
- [EndpointDetails](#) (p. 90)
- [Frequency](#) (p. 91)
- [FrequencyBandwidth](#) (p. 92)
- [GroundStationData](#) (p. 93)
- [MissionProfileListItem](#) (p. 94)
- [SatelliteListItem](#) (p. 95)
- [SecurityDetails](#) (p. 96)
- [SocketAddress](#) (p. 97)
- [Source](#) (p. 98)
- [SpectrumConfig](#) (p. 99)
- [TrackingConfig](#) (p. 100)
- [UplinkEchoConfig](#) (p. 101)
- [UplinkSpectrumConfig](#) (p. 102)

AntennaDemodDecodeDetails

Details about an antenna demod decode `Config` used in a contact.

Contents

outputNode

Name of an antenna demod decode output node used in a contact.

Type: String

Required: No

See Also

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

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

AntennaDownlinkConfig

Information about how AWS Ground Station should configure an antenna for downlink during a contact.

Contents

spectrumConfig

Object that describes a spectral Config.

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

Required: Yes

See Also

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

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

AntennaDownlinkDemodDecodeConfig

Information about how AWS Ground Station should configure an antenna for downlink demod decode during a contact.

Contents

decodeConfig

Information about the decode Config.

Type: [DecodeConfig \(p. 85\)](#) object

Required: Yes

demodulationConfig

Information about the demodulation Config.

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

Required: Yes

spectrumConfig

Information about the spectral Config.

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

Required: Yes

See Also

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

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

AntennaUplinkConfig

Information about the uplink Config of an antenna.

Contents

spectrumConfig

Information about the uplink spectral Config.

Type: [UplinkSpectrumConfig \(p. 102\)](#) object

Required: Yes

targetEirp

EIRP of the target.

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

Required: Yes

transmitDisabled

Whether or not uplink transmit is disabled.

Type: Boolean

Required: No

See Also

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

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

ConfigDetails

Details for certain Config object types in a contact.

Contents

antennaDemodDecodeDetails

Details for antenna demod decode Config in a contact.

Type: [AntennaDemodDecodeDetails \(p. 71\)](#) object

Required: No

endpointDetails

Information about the endpoint details.

Type: [EndpointDetails \(p. 90\)](#) 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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ConfigListItem

An item in a list of `Config` objects.

Contents

configArn

ARN of a `Config`.

Type: String

Required: No

configId

UUID of a `Config`.

Type: String

Required: No

configType

Type of a `Config`.

Type: String

Valid Values: `antenna-downlink` | `antenna-downlink-demod-decode` | `antenna-uplink`
| `dataflow-endpoint` | `tracking` | `uplink-echo`

Required: No

name

Name of a `Config`.

Type: String

Required: No

See Also

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

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

ConfigTypeData

Object containing the parameters of a `Config`.

See the subtype definitions for what each type of `Config` contains.

Contents

antennaDownlinkConfig

Information about how AWS Ground Station should configure an antenna for downlink during a contact.

Type: [AntennaDownlinkConfig \(p. 72\)](#) object

Required: No

antennaDownlinkDemodDecodeConfig

Information about how AWS Ground Station should configure an antenna for downlink demod decode during a contact.

Type: [AntennaDownlinkDemodDecodeConfig \(p. 73\)](#) object

Required: No

antennaUplinkConfig

Information about how AWS Ground Station should configure an antenna for uplink during a contact.

Type: [AntennaUplinkConfig \(p. 74\)](#) object

Required: No

dataflowEndpointConfig

Information about the dataflow endpoint `Config`.

Type: [DataflowEndpointConfig \(p. 83\)](#) object

Required: No

trackingConfig

Object that determines whether tracking should be used during a contact executed with this `Config` in the mission profile.

Type: [TrackingConfig \(p. 100\)](#) object

Required: No

uplinkEchoConfig

Information about an uplink echo `Config`.

Parameters from the `AntennaUplinkConfig`, corresponding to the specified `AntennaUplinkConfigArn`, are used when this `UplinkEchoConfig` is used in a contact.

Type: [UplinkEchoConfig \(p. 101\)](#) 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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

ContactData

Data describing a contact.

Contents

contactId

UUID of a contact.

Type: String

Required: No

contactStatus

Status of a contact.

Type: String

Valid Values: AVAILABLE | AWS_CANCELLED | CANCELLED | CANCELLING | COMPLETED
| FAILED | FAILED_TO_SCHEDULE | PASS | POSTPASS | PREPASS | SCHEDULED |
SCHEDULING

Required: No

endTime

End time of a contact.

Type: Timestamp

Required: No

errorMessage

Error message of a contact.

Type: String

Required: No

groundStation

Name of a ground station.

Type: String

Required: No

maximumElevation

Maximum elevation angle of a contact.

Type: [Elevation \(p. 89\)](#) object

Required: No

missionProfileArn

ARN of a mission profile.

Type: String

Required: No

postPassEndTime

Amount of time after a contact ends that you'd like to receive a CloudWatch event indicating the pass has finished.

Type: Timestamp

Required: No

prePassStartTime

Amount of time prior to contact start you'd like to receive a CloudWatch event indicating an upcoming pass.

Type: Timestamp

Required: No

region

Region of a contact.

Type: String

Required: No

satelliteArn

ARN of a satellite.

Type: String

Required: No

startTime

Start time of a contact.

Type: Timestamp

Required: No

tags

Tags assigned to a contact.

Type: String to string map

Required: No

See Also

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

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

DataflowDetail

Information about a dataflow edge used in a contact.

Contents

destination

Dataflow details for the destination side.

Type: [Destination \(p. 87\)](#) object

Required: No

source

Dataflow details for the source side.

Type: [Source \(p. 98\)](#) 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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

DataflowEndpoint

Information about a dataflow endpoint.

Contents

address

Socket address of a dataflow endpoint.

Type: [SocketAddress](#) (p. 97) object

Required: No

mtu

Maximum transmission unit (MTU) size in bytes of a dataflow endpoint.

Type: Integer

Valid Range: Minimum value of 1400. Maximum value of 1500.

Required: No

name

Name of a dataflow endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `^[a-zA-Z0-9_:-]{1,256}$`

Required: No

status

Status of a dataflow endpoint.

Type: String

Valid Values: `created` | `creating` | `deleted` | `deleting` | `failed`

Required: No

See Also

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

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

DataflowEndpointConfig

Information about the dataflow endpoint Config.

Contents

dataflowEndpointName

Name of a dataflow endpoint.

Type: String

Required: Yes

dataflowEndpointRegion

Region of a dataflow endpoint.

Type: String

Required: No

See Also

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

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

DataflowEndpointListItem

Item in a list of `DataflowEndpoint` groups.

Contents

dataflowEndpointGroupArn

ARN of a dataflow endpoint group.

Type: String

Required: No

dataflowEndpointGroupId

UUID of a dataflow endpoint group.

Type: String

Required: No

See Also

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

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

DecodeConfig

Information about the decode Config.

Contents

unvalidatedJSON

Unvalidated JSON of a decode Config.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 8192.

Pattern: `^[{}\\[\]:.,"0-9A-z\\-\\s]{2,8192}$`

Required: Yes

See Also

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

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

DemodulationConfig

Information about the demodulation Config.

Contents

unvalidatedJSON

Unvalidated JSON of a demodulation Config.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 8192.

Pattern: `^[{}\\[\]:.,"0-9A-z\\-_\\s]{2,8192}$`

Required: Yes

See Also

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

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

Destination

Dataflow details for the destination side.

Contents

configDetails

Additional details for a `Config`, if type is dataflow endpoint or antenna demod decode.

Type: [ConfigDetails \(p. 75\)](#) object

Required: No

configId

UUID of a `Config`.

Type: String

Required: No

configType

Type of a `Config`.

Type: String

Valid Values: `antenna-downlink` | `antenna-downlink-demod-decode` | `antenna-uplink`
| `dataflow-endpoint` | `tracking` | `uplink-echo`

Required: No

dataflowDestinationRegion

Region of a dataflow destination.

Type: String

Required: No

See Also

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

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

Eirp

Object that represents EIRP.

Contents

units

Units of an EIRP.

Type: String

Valid Values: dBW

Required: Yes

value

Value of an EIRP. Valid values are between 20.0 to 50.0 dBW.

Type: Double

Required: Yes

See Also

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

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

Elevation

Elevation angle of the satellite in the sky during a contact.

Contents

unit

Elevation angle units.

Type: String

Valid Values: `DEGREE_ANGLE` | `RADIAN`

Required: Yes

value

Elevation angle value.

Type: Double

Required: Yes

See Also

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

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

EndpointDetails

Information about the endpoint details.

Contents

endpoint

A dataflow endpoint.

Type: [DataflowEndpoint \(p. 82\)](#) object

Required: No

securityDetails

Endpoint security details.

Type: [SecurityDetails \(p. 96\)](#) 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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V3](#)

Frequency

Object that describes the frequency.

Contents

units

Frequency units.

Type: String

Valid Values: GHz | MHz | kHz

Required: Yes

value

Frequency value. Valid values are between 2200 to 2300 MHz and 7750 to 8400 MHz for downlink and 2025 to 2120 MHz for uplink.

Type: Double

Required: Yes

See Also

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

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

FrequencyBandwidth

Object that describes the frequency bandwidth.

Contents

units

Frequency bandwidth units.

Type: String

Valid Values: GHz | MHz | kHz

Required: Yes

value

Frequency bandwidth value. AWS Ground Station currently has the following bandwidth limitations:

- For `AntennaDownlinkDemodDecodeconfig`, valid values are between 125 kHz to 650 MHz.
- For `AntennaDownlinkconfig`, valid values are between 10 kHz to 54 MHz.
- For `AntennaUplinkConfig`, valid values are between 10 kHz to 54 MHz.

Type: Double

Required: Yes

See Also

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

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

GroundStationData

Information about the ground station data.

Contents

groundStationId

UUID of a ground station.

Type: String

Required: No

groundStationName

Name of a ground station.

Type: String

Required: No

region

Ground station Region.

Type: String

Required: No

See Also

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

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

MissionProfileListItem

Item in a list of mission profiles.

Contents

missionProfileArn

ARN of a mission profile.

Type: String

Required: No

missionProfileId

UUID of a mission profile.

Type: String

Required: No

name

Name of a mission profile.

Type: String

Required: No

region

Region of a mission profile.

Type: String

Required: No

See Also

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

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

SatelliteListItem

Item in a list of satellites.

Contents

groundStations

A list of ground stations to which the satellite is on-boarded.

Type: Array of strings

Required: No

noradSatelliteID

NORAD satellite ID number.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 99999.

Required: No

satelliteArn

ARN of a satellite.

Type: String

Required: No

satelliteId

UUID of a satellite.

Type: String

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

Pattern: `[a-zA-Z0-9]{8}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{12}`

Required: No

See Also

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

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

SecurityDetails

Information about endpoints.

Contents

roleArn

ARN to a role needed for connecting streams to your instances.

Type: String

Required: Yes

securityGroupIds

The security groups to attach to the elastic network interfaces.

Type: Array of strings

Required: Yes

subnetIds

A list of subnets where AWS Ground Station places elastic network interfaces to send streams to your instances.

Type: Array of strings

Required: Yes

See Also

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

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

SocketAddress

Information about the socket address.

Contents

name

Name of a socket address.

Type: String

Required: Yes

port

Port of a socket address.

Type: Integer

Required: Yes

See Also

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

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

Source

Dataflow details for the source side.

Contents

configDetails

Additional details for a `Config`, if type is dataflow endpoint or antenna demod decode.

Type: [ConfigDetails \(p. 75\)](#) object

Required: No

configId

UUID of a `Config`.

Type: String

Required: No

configType

Type of a `Config`.

Type: String

Valid Values: `antenna-downlink` | `antenna-downlink-demod-decode` | `antenna-uplink`
| `dataflow-endpoint` | `tracking` | `uplink-echo`

Required: No

dataflowSourceRegion

Region of a dataflow source.

Type: String

Required: No

See Also

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

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

SpectrumConfig

Object that describes a spectral Config.

Contents

bandwidth

Bandwidth of a spectral Config. AWS Ground Station currently has the following bandwidth limitations:

- For `AntennaDownlinkDemodDecodeconfig`, valid values are between 125 kHz to 650 MHz.
- For `AntennaDownlinkconfig` valid values are between 10 kHz to 54 MHz.
- For `AntennaUplinkConfig`, valid values are between 10 kHz to 54 MHz.

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

Required: Yes

centerFrequency

Center frequency of a spectral Config. Valid values are between 2200 to 2300 MHz and 7750 to 8400 MHz for downlink and 2025 to 2120 MHz for uplink.

Type: [Frequency \(p. 91\)](#) object

Required: Yes

polarization

Polarization of a spectral Config. Capturing both "RIGHT_HAND" and "LEFT_HAND" polarization requires two separate configs.

Type: String

Valid Values: `LEFT_HAND` | `NONE` | `RIGHT_HAND`

Required: No

See Also

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

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

TrackingConfig

Object that determines whether tracking should be used during a contact executed with this Config in the mission profile.

Contents

autotrack

Current setting for autotrack.

Type: String

Valid Values: `PREFERRED` | `REMOVED` | `REQUIRED`

Required: Yes

See Also

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

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

UplinkEchoConfig

Information about an uplink echo Config.

Parameters from the `AntennaUplinkConfig`, corresponding to the specified `AntennaUplinkConfigArn`, are used when this `UplinkEchoConfig` is used in a contact.

Contents

antennaUplinkConfigArn

ARN of an uplink Config.

Type: String

Required: Yes

enabled

Whether or not an uplink Config is enabled.

Type: Boolean

Required: Yes

See Also

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

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

UplinkSpectrumConfig

Information about the uplink spectral Config.

Contents

centerFrequency

Center frequency of an uplink spectral Config. Valid values are between 2025 to 2120 MHz.

Type: [Frequency \(p. 91\)](#) object

Required: Yes

polarization

Polarization of an uplink spectral Config. Capturing both "RIGHT_HAND" and "LEFT_HAND" polarization requires two separate configs.

Type: String

Valid Values: LEFT_HAND | NONE | RIGHT_HAND

Required: No

See Also

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

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

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400