
AWS Ground Station

API Reference

API Version 2019-05-23



AWS Ground Station: API Reference

Copyright © 2022 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

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	8
CreateDataflowEndpointGroup	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	10
Response Elements	10
Errors	10
See Also	10
CreateEphemeris	12
Request Syntax	12
URI Request Parameters	12
Request Body	12
Response Syntax	14
Response Elements	14
Errors	14
See Also	15
CreateMissionProfile	16
Request Syntax	16
URI Request Parameters	16
Request Body	16
Response Syntax	17
Response Elements	17
Errors	18
See Also	18
DeleteConfig	19
Request Syntax	19
URI Request Parameters	19
Request Body	19
Response Syntax	19
Response Elements	19
Errors	20
See Also	20
DeleteDataflowEndpointGroup	21
Request Syntax	21
URI Request Parameters	21
Request Body	21

Response Syntax	21
Response Elements	21
Errors	21
See Also	22
DeleteEphemeris	23
Request Syntax	23
URI Request Parameters	23
Request Body	23
Response Syntax	23
Response Elements	23
Errors	23
See Also	24
DeleteMissionProfile	25
Request Syntax	25
URI Request Parameters	25
Request Body	25
Response Syntax	25
Response Elements	25
Errors	25
See Also	26
DescribeContact	27
Request Syntax	27
URI Request Parameters	27
Request Body	27
Response Syntax	27
Response Elements	28
Errors	30
See Also	30
DescribeEphemeris	32
Request Syntax	32
URI Request Parameters	32
Request Body	32
Response Syntax	32
Response Elements	33
Errors	34
See Also	34
GetConfig	36
Request Syntax	36
URI Request Parameters	36
Request Body	36
Response Syntax	36
Response Elements	37
Errors	38
See Also	38
GetDataflowEndpointGroup	40
Request Syntax	40
URI Request Parameters	40
Request Body	40
Response Syntax	40
Response Elements	41
Errors	41
See Also	41
GetMinuteUsage	43
Request Syntax	43
URI Request Parameters	43
Request Body	43
Response Syntax	43

Response Elements	44
Errors	44
See Also	44
GetMissionProfile	46
Request Syntax	46
URI Request Parameters	46
Request Body	46
Response Syntax	46
Response Elements	46
Errors	48
See Also	48
GetSatellite	49
Request Syntax	49
URI Request Parameters	49
Request Body	49
Response Syntax	49
Response Elements	49
Errors	50
See Also	50
ListConfigs	52
Request Syntax	52
URI Request Parameters	52
Request Body	52
Response Syntax	52
Response Elements	52
Errors	53
See Also	53
ListContacts	54
Request Syntax	54
URI Request Parameters	54
Request Body	54
Response Syntax	55
Response Elements	56
Errors	56
See Also	57
ListDataflowEndpointGroups	58
Request Syntax	58
URI Request Parameters	58
Request Body	58
Response Syntax	58
Response Elements	58
Errors	59
See Also	59
ListEphemerides	60
Request Syntax	60
URI Request Parameters	60
Request Body	60
Response Syntax	61
Response Elements	61
Errors	62
See Also	62
ListGroundStations	63
Request Syntax	63
URI Request Parameters	63
Request Body	63
Response Syntax	63
Response Elements	64

Errors	64
See Also	64
ListMissionProfiles	66
Request Syntax	66
URI Request Parameters	66
Request Body	66
Response Syntax	66
Response Elements	66
Errors	67
See Also	67
ListSatellites	68
Request Syntax	68
URI Request Parameters	68
Request Body	68
Response Syntax	68
Response Elements	68
Errors	69
See Also	69
ListTagsForResource	70
Request Syntax	70
URI Request Parameters	70
Request Body	70
Response Syntax	70
Response Elements	70
Errors	70
See Also	71
ReserveContact	72
Request Syntax	72
URI Request Parameters	72
Request Body	72
Response Syntax	73
Response Elements	73
Errors	73
See Also	74
TagResource	75
Request Syntax	75
URI Request Parameters	75
Request Body	75
Response Syntax	75
Response Elements	75
Errors	75
See Also	76
UntagResource	77
Request Syntax	77
URI Request Parameters	77
Request Body	77
Response Syntax	77
Response Elements	77
Errors	77
See Also	78
UpdateConfig	79
Request Syntax	79
URI Request Parameters	80
Request Body	80
Response Syntax	81
Response Elements	81
Errors	81

See Also	82
UpdateEphemeris	83
Request Syntax	83
URI Request Parameters	83
Request Body	83
Response Syntax	84
Response Elements	84
Errors	84
See Also	85
UpdateMissionProfile	86
Request Syntax	86
URI Request Parameters	86
Request Body	86
Response Syntax	87
Response Elements	87
Errors	88
See Also	88
Data Types	89
AntennaDemodDecodeDetails	91
Contents	91
See Also	91
AntennaDownlinkConfig	92
Contents	92
See Also	92
AntennaDownlinkDemodDecodeConfig	93
Contents	93
See Also	93
AntennaUplinkConfig	94
Contents	94
See Also	94
ConfigDetails	95
Contents	95
See Also	95
ConfigListItem	96
Contents	96
See Also	96
ConfigTypeData	97
Contents	97
See Also	98
ContactData	99
Contents	99
See Also	100
DataflowDetail	101
Contents	101
See Also	101
DataflowEndpoint	102
Contents	102
See Also	102
DataflowEndpointConfig	103
Contents	103
See Also	103
DataflowEndpointListItem	104
Contents	104
See Also	104
DecodeConfig	105
Contents	105
See Also	105

DemodulationConfig	106
Contents	106
See Also	106
Destination	107
Contents	107
See Also	107
Eirp	108
Contents	108
See Also	108
Elevation	109
Contents	109
See Also	109
EndpointDetails	110
Contents	110
See Also	110
EphemerisData	111
Contents	111
See Also	111
EphemerisDescription	112
Contents	112
See Also	112
EphemerisItem	113
Contents	113
See Also	114
EphemerisMetaData	115
Contents	115
See Also	115
EphemerisTypeDescription	117
Contents	117
See Also	117
Frequency	118
Contents	118
See Also	118
FrequencyBandwidth	119
Contents	119
See Also	119
GroundStationData	120
Contents	120
See Also	120
MissionProfileListItem	121
Contents	121
See Also	121
OEMEphemeris	123
Contents	123
See Also	123
S3Object	124
Contents	124
See Also	124
S3RecordingConfig	125
Contents	125
See Also	125
S3RecordingDetails	126
Contents	126
See Also	126
SatelliteListItem	127
Contents	127
See Also	127

SecurityDetails	129
Contents	129
See Also	129
SocketAddress	130
Contents	130
See Also	130
Source	131
Contents	131
See Also	131
SpectrumConfig	132
Contents	132
See Also	132
TimeRange	133
Contents	133
See Also	133
TLEData	134
Contents	134
See Also	134
TLEEphemeris	135
Contents	135
See Also	135
TrackingConfig	136
Contents	136
See Also	136
UplinkEchoConfig	137
Contents	137
See Also	137
UplinkSpectrumConfig	138
Contents	138
See Also	138
Common Parameters	139
Common Errors	141

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 November 23, 2022.

Actions

The following actions are supported:

- [CancelContact](#) (p. 3)
- [CreateConfig](#) (p. 5)
- [CreateDataflowEndpointGroup](#) (p. 9)
- [CreateEphemeris](#) (p. 12)
- [CreateMissionProfile](#) (p. 16)
- [DeleteConfig](#) (p. 19)
- [DeleteDataflowEndpointGroup](#) (p. 21)
- [DeleteEphemeris](#) (p. 23)
- [DeleteMissionProfile](#) (p. 25)
- [DescribeContact](#) (p. 27)
- [DescribeEphemeris](#) (p. 32)
- [GetConfig](#) (p. 36)
- [GetDataflowEndpointGroup](#) (p. 40)
- [GetMinuteUsage](#) (p. 43)
- [GetMissionProfile](#) (p. 46)
- [GetSatellite](#) (p. 49)
- [ListConfigs](#) (p. 52)
- [ListContacts](#) (p. 54)
- [ListDataflowEndpointGroups](#) (p. 58)
- [ListEphemerides](#) (p. 60)
- [ListGroundStations](#) (p. 63)
- [ListMissionProfiles](#) (p. 66)
- [ListSatellites](#) (p. 68)
- [ListTagsForResource](#) (p. 70)
- [ReserveContact](#) (p. 72)
- [TagResource](#) (p. 75)
- [UntagResource](#) (p. 77)
- [UpdateConfig](#) (p. 79)
- [UpdateEphemeris](#) (p. 83)
- [UpdateMissionProfile](#) (p. 86)

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.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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"
    }
  }
}
```

```
    },
    "s3RecordingConfig": {
      "bucketArn": "string",
      "prefix": "string",
      "roleArn": "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. 97) 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 | s3-recording

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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 \(p. 110\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 500 items.

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

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateEphemeris

Creates an Ephemeris with the specified EphemerisData.

Request Syntax

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

{
  "enabled": boolean,
  "ephemeris": {
    "oem": {
      "oemData": "string",
      "s3Object": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    },
    "tle": {
      "s3Object": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      },
      "tleData": [
        {
          "tleLine1": "string",
          "tleLine2": "string",
          "validTimeRange": {
            "endTime": number,
            "startTime": number
          }
        }
      ]
    }
  },
  "expirationTime": number,
  "kmsKeyArn": "string",
  "name": "string",
  "priority": number,
  "satelliteId": "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.

enabled (p. 12)

Whether to set the ephemeris status to ENABLED after validation.

Setting this to false will set the ephemeris status to DISABLED after validation.

Type: Boolean

Required: No

ephemeris (p. 12)

Ephemeris data.

Type: [EphemerisData \(p. 111\)](#) object

Required: No

expirationTime (p. 12)

An overall expiration time for the ephemeris in UTC, after which it will become EXPIRED.

Type: Timestamp

Required: No

kmsKeyArn (p. 12)

The ARN of a KMS key used to encrypt the ephemeris in Ground Station.

Type: String

Required: No

name (p. 12)

A name string associated with the ephemeris. Used as a human-readable identifier for the ephemeris.

Type: String

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

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

Required: Yes

priority (p. 12)

Customer-provided priority score to establish the order in which overlapping ephemerides should be used.

The default for customer-provided ephemeris priority is 1, and higher numbers take precedence.

Priority must be 1 or greater

Type: Integer

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

Required: No

satelliteId (p. 12)

AWS Ground Station satellite ID for this ephemeris.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

[tags \(p. 12\)](#)

Tags assigned to an ephemeris.

Type: String to string map

Required: No

Response Syntax

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

{
  "ephemerisId": "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.

[ephemerisId \(p. 14\)](#)

The AWS Ground Station ephemeris ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 16)

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 0. Maximum value of 21600.

Required: No

`contactPrePassDurationSeconds` (p. 16)

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 0. Maximum value of 21600.

Required: No

`dataflowEdges` (p. 16)

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: Minimum number of 0 items. Maximum number of 500 items.

Array Members: Fixed number of 2 items.

Required: Yes

minimumViableContactDurationSeconds (p. 16)

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. 16)

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. 16)

Tags assigned to a mission profile.

Type: String to string map

Required: No

trackingConfigArn (p. 16)

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. 17)

UUID of a mission profile.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 19)

UUID of a Config.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

configType (p. 19)

Type of a Config.

Valid Values: `antenna-downlink` | `antenna-downlink-demod-decode` | `antenna-uplink` | `dataflow-endpoint` | `tracking` | `uplink-echo` | `s3-recording`

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. 19)

ARN of a Config.

Type: String

configId (p. 19)

UUID of a Config.

Type: String

configType (p. 19)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 21)

UUID of a dataflow endpoint group.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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. 21)

UUID of a dataflow endpoint group.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteEphemeris

Deletes an ephemeris

Request Syntax

```
DELETE /ephemeris/ephemerisId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ephemerisId (p. 23)

The AWS Ground Station ephemeris ID.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ephemerisId": "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.

ephemerisId (p. 23)

The AWS Ground Station ephemeris ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 25)

UUID of a mission profile.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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. 25)

UUID of a mission profile.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 27)

UUID of a contact.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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" ]
            }
          }
        }
      }
    }
  ]
}
```

```

        },
        "s3RecordingDetails": {
            "bucketArn": "string",
            "keyTemplate": "string"
        }
    },
    "configId": "string",
    "configType": "string",
    "dataflowDestinationRegion": "string"
},
"errorMessage": "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" ]
            }
        },
        "s3RecordingDetails": {
            "bucketArn": "string",
            "keyTemplate": "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. 27)

UUID of a contact.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

contactStatus (p. 27)

Status of a contact.

Type: String

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

dataflowList (p. 27)

List describing source and destination details for each dataflow edge.

Type: Array of [DataflowDetail \(p. 101\)](#) objects

endTime (p. 27)

End time of a contact in UTC.

Type: Timestamp

errorMessage (p. 27)

Error message for a contact.

Type: String

groundStation (p. 27)

Ground station for a contact.

Type: String

maximumElevation (p. 27)

Maximum elevation angle of a contact.

Type: [Elevation \(p. 109\)](#) object

missionProfileArn (p. 27)

ARN of a mission profile.

Type: String

postPassEndTime (p. 27)

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. 27)

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

Type: Timestamp

region (p. 27)

Region of a contact.

Type: String

satelliteArn (p. 27)

ARN of a satellite.

Type: String

startTime (p. 27)

Start time of a contact in UTC.

Type: Timestamp

tags (p. 27)

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 \(p. 141\)](#).

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DescribeEphemeris

Describes an existing ephemeris.

Request Syntax

```
GET /ephemeris/ephemerisId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

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

The AWS Ground Station ephemeris ID.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "creationTime": number,
  "enabled": boolean,
  "ephemerisId": "string",
  "invalidReason": "string",
  "name": "string",
  "priority": number,
  "satelliteId": "string",
  "status": "string",
  "suppliedData": {
    "oem": {
      "ephemerisData": "string",
      "sourceS3Object": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    },
    "tle": {
      "ephemerisData": "string",
      "sourceS3Object": {
        "bucket": "string",
        "key": "string",
        "version": "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.

creationTime (p. 32)

The time the ephemeris was uploaded in UTC.

Type: Timestamp

enabled (p. 32)

Whether or not the ephemeris is enabled.

Type: Boolean

ephemerisId (p. 32)

The AWS Ground Station ephemeris ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

invalidReason (p. 32)

Reason that an ephemeris failed validation. Only provided for ephemerides with INVALID status.

Type: String

Valid Values: METADATA_INVALID | TIME_RANGE_INVALID | TRAJECTORY_INVALID |
KMS_KEY_INVALID | VALIDATION_ERROR

name (p. 32)

A name string associated with the ephemeris. Used as a human-readable identifier for the ephemeris.

Type: String

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

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

priority (p. 32)

Customer-provided priority score to establish the order in which overlapping ephemerides should be used.

The default for customer-provided ephemeris priority is 1, and higher numbers take precedence.

Priority must be 1 or greater

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99999.

satelliteId (p. 32)

The AWS Ground Station satellite ID associated with ephemeris.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

status (p. 32)

The status of the ephemeris.

Type: String

Valid Values: VALIDATING | INVALID | ERROR | ENABLED | DISABLED | EXPIRED

suppliedData (p. 32)

Supplied ephemeris data.

Type: [EphemerisTypeDescription \(p. 117\)](#) object

tags (p. 32)

Tags assigned to an ephemeris.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 36)

UUID of a Config.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

configType (p. 36)

Type of a Config.

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

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"
    },
    "s3RecordingConfig": {
      "bucketArn": "string",
      "prefix": "string",
      "roleArn": "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 \(p. 36\)](#)

ARN of a Config

Type: String

[configData \(p. 36\)](#)

Data elements in a Config.

Type: [ConfigTypeData \(p. 97\)](#) object

[configId \(p. 36\)](#)

UUID of a Config.

Type: String

[configType \(p. 36\)](#)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

[name \(p. 36\)](#)

Name of a Config.

Type: String

[tags \(p. 36\)](#)

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 \(p. 141\)](#).

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 V2](#)
- [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. 40)

UUID of a dataflow endpoint group.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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. 40)

ARN of a dataflow endpoint group.

Type: String

dataflowEndpointGroupId (p. 40)

UUID of a dataflow endpoint group.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

endpointsDetails (p. 40)

Details of a dataflow endpoint.

Type: Array of [EndpointDetails \(p. 110\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 500 items.

tags (p. 40)

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 \(p. 141\)](#).

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 V2](#)
- [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. 43)

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

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 12.

Required: Yes

year (p. 43)

The year being requested, in the format of YYYY.

Type: Integer

Valid Range: Minimum value of 2018. Maximum value of 3000.

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. 43)

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

Type: Integer

isReservedMinutesCustomer (p. 43)

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. 43)

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

Type: Integer

totalScheduledMinutes (p. 43)

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

Type: Integer

upcomingMinutesScheduled (p. 43)

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. 141).

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 V2](#)
- [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. 46)

UUID of a mission profile.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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. 46)

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 0. Maximum value of 21600.

contactPrePassDurationSeconds (p. 46)

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 0. Maximum value of 21600.

dataflowEdges (p. 46)

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: Minimum number of 0 items. Maximum number of 500 items.

Array Members: Fixed number of 2 items.

minimumViableContactDurationSeconds (p. 46)

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. 46)

ARN of a mission profile.

Type: String

missionProfileId (p. 46)

UUID of a mission profile.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

name (p. 46)

Name of a mission profile.

Type: String

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

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

region (p. 46)

Region of a mission profile.

Type: String

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

Pattern: ^[\w-]+\$

tags (p. 46)

Tags assigned to a mission profile.

Type: String to string map

trackingConfigArn (p. 46)

ARN of a tracking Config.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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 \(p. 49\)](#)

UUID of a satellite.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "currentEphemeris": {
    "ephemerisId": "string",
    "epoch": number,
    "name": "string",
    "source": "string"
  },
  "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.

[currentEphemeris \(p. 49\)](#)

The current ephemeris being used to compute the trajectory of the satellite.

Type: [EphemerisMetaData \(p. 115\)](#) object

[groundStations \(p. 49\)](#)

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

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:={4,256}]$`

[noradSatelliteID \(p. 49\)](#)

NORAD satellite ID number.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99999.

[satelliteArn \(p. 49\)](#)

ARN of a satellite.

Type: String

[satelliteId \(p. 49\)](#)

UUID of a satellite.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 52)

Maximum number of Configs returned.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 52)

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

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

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 \(p. 52\)](#)

List of Config items.

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

[nextToken \(p. 52\)](#)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 54)

End time of a contact in UTC.

Type: Timestamp

Required: Yes

groundStation (p. 54)

Name of a ground station.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:=]{4,256}$`

Required: No

maxResults (p. 54)

Maximum number of contacts returned.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

missionProfileArn (p. 54)

ARN of a mission profile.

Type: String

Required: No

nextToken (p. 54)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Required: No

satelliteArn (p. 54)

ARN of a satellite.

Type: String

Required: No

startTime (p. 54)

Start time of a contact in UTC.

Type: Timestamp

Required: Yes

statusList (p. 54)

Status of a contact reservation.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Valid Values: AVAILABLE | AWS_CANCELLED | AWS_FAILED | 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. 55)

List of contacts.

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

nextToken (p. 55)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 141).

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 V2](#)
- [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. 58)

Maximum number of dataflow endpoint groups returned.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 58)

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

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

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. 58)

A list of dataflow endpoint groups.

Type: Array of [DataflowEndpointListItem](#) (p. 104) objects
nextToken (p. 58)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 141).

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEphemerides

List existing ephemerides.

Request Syntax

```
POST /ephemerides?maxResults=maxResults&nextToken=nextToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "endTime": number,  
  "satelliteId": "string",  
  "startTime": number,  
  "statusList": [ "string" ]  
}
```

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 60)

Maximum number of ephemerides to return.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 60)

Pagination token.

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Request Body

The request accepts the following data in JSON format.

endTime (p. 60)

The end time to list in UTC. The operation will return an ephemeris if its expiration time is within the time range defined by the `startTime` and `endTime`.

Type: Timestamp

Required: Yes

satelliteId (p. 60)

The AWS Ground Station satellite ID to list ephemeris for.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

startTime (p. 60)

The start time to list in UTC. The operation will return an ephemeris if its expiration time is within the time range defined by the `startTime` and `endTime`.

Type: Timestamp

Required: Yes

statusList (p. 60)

The list of ephemeris status to return.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Valid Values: VALIDATING | INVALID | ERROR | ENABLED | DISABLED | EXPIRED

Required: No

Response Syntax

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

{
  "ephemerides": [
    {
      "creationTime": number,
      "enabled": boolean,
      "ephemerisId": "string",
      "name": "string",
      "priority": number,
      "sourceS3Object": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      },
      "status": "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.

ephemerides (p. 61)

List of ephemerides.

Type: Array of [EphemerisItem](#) (p. 113) objects

Array Members: Minimum number of 1 item. Maximum number of 500 items.

[nextToken \(p. 61\)](#)

Pagination token.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 63)

Maximum number of ground stations returned.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 63)

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

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

satelliteId (p. 63)

Satellite ID to retrieve on-boarded ground stations.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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. 63)

List of ground stations.

Type: Array of [GroundStationData](#) (p. 120) objects

nextToken (p. 63)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 141).

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 V2](#)
- [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. 66)

Maximum number of mission profiles returned.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 66)

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

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

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. 66)

List of mission profiles.

Type: Array of [MissionProfileListItem \(p. 121\)](#) objects

nextToken (p. 66)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 68)

Maximum number of satellites returned.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 68)

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

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "satellites": [
    {
      "currentEphemeris": {
        "ephemerisId": "string",
        "epoch": number,
        "name": "string",
        "source": "string"
      },
      "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. 68)

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

Type: String

Length Constraints: Minimum length of 3. Maximum length of 1000.

Pattern: `^[A-Za-z0-9-/+_.=]+$`

satellites (p. 68)

List of satellites.

Type: Array of [SatelliteListItem \(p. 127\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 70)

ARN of a resource.

Length Constraints: Minimum length of 5. Maximum length of 1024.

Pattern: `^(arn:aws:)[\s\S]{0,1024}$`

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. 70)

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 \(p. 141\)](#).

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 V2](#)
- [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. 72)

End time of a contact in UTC.

Type: Timestamp

Required: Yes

groundStation (p. 72)

Name of a ground station.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:=]{4,256}$`

Required: Yes

missionProfileArn (p. 72)

ARN of a mission profile.

Type: String

Required: Yes

satelliteArn (p. 72)

ARN of a satellite

Type: String

Required: Yes

[startTime \(p. 72\)](#)

Start time of a contact in UTC.

Type: Timestamp

Required: Yes

[tags \(p. 72\)](#)

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 \(p. 73\)](#)

UUID of a contact.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 75)

ARN of a resource tag.

Length Constraints: Minimum length of 5. Maximum length of 1024.

Pattern: `^(arn:aws:)[\s\S]{0,1024}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 75)

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 \(p. 141\)](#).

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 V2](#)
- [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. 77)

ARN of a resource.

Length Constraints: Minimum length of 5. Maximum length of 1024.

Pattern: `^(arn:aws:)[\s\S]{0,1024}$`

Required: Yes

tagKeys (p. 77)

Keys of a resource tag.

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Length Constraints: Minimum length of 1.

Pattern: `^[\s\S]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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"
  },
  "s3RecordingConfig": {
    "bucketArn": "string",
    "prefix": "string",
    "roleArn": "string"
  },
  "trackingConfig": {
    "autotrack": "string"
  },
  "uplinkEchoConfig": {
    "antennaUplinkConfigArn": "string",
    "enabled": boolean
  }
},
"name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

configId (p. 79)

UUID of a Config.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

configType (p. 79)

Type of a Config.

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

Required: Yes

Request Body

The request accepts the following data in JSON format.

configData (p. 79)

Parameters of a Config.

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

Required: Yes

name (p. 79)

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. 81)

ARN of a Config.

Type: String

configId (p. 81)

UUID of a Config.

Type: String

configType (p. 81)

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateEphemeris

Updates an existing ephemeris

Request Syntax

```
PUT /ephemeris/ephemerisId HTTP/1.1
Content-type: application/json

{
  "enabled": boolean,
  "name": "string",
  "priority": number
}
```

URI Request Parameters

The request uses the following URI parameters.

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

The AWS Ground Station ephemeris ID.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

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

Whether the ephemeris is enabled or not. Changing this value will not require the ephemeris to be re-validated.

Type: Boolean

Required: Yes

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

A name string associated with the ephemeris. Used as a human-readable identifier for the ephemeris.

Type: String

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

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

Required: No

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

Customer-provided priority score to establish the order in which overlapping ephemerides should be used.

The default for customer-provided ephemeris priority is 1, and higher numbers take precedence.

Priority must be 1 or greater

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99999.

Required: No

Response Syntax

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

{
  "ephemerisId": "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.

ephemerisId (p. 84)

The AWS Ground Station ephemeris ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 86)

UUID of a mission profile.

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

contactPostPassDurationSeconds (p. 86)

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 0. Maximum value of 21600.

Required: No

contactPrePassDurationSeconds (p. 86)

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 0. Maximum value of 21600.

Required: No

dataflowEdges (p. 86)

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: Minimum number of 0 items. Maximum number of 500 items.

Array Members: Fixed number of 2 items.

Required: No

minimumViableContactDurationSeconds (p. 86)

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. 86)

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. 86)

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. 87)

UUID of a mission profile.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 141\)](#).

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 V2](#)
- [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. 91)
- [AntennaDownlinkConfig](#) (p. 92)
- [AntennaDownlinkDemodDecodeConfig](#) (p. 93)
- [AntennaUplinkConfig](#) (p. 94)
- [ConfigDetails](#) (p. 95)
- [ConfigListItem](#) (p. 96)
- [ConfigTypeData](#) (p. 97)
- [ContactData](#) (p. 99)
- [DataflowDetail](#) (p. 101)
- [DataflowEndpoint](#) (p. 102)
- [DataflowEndpointConfig](#) (p. 103)
- [DataflowEndpointListItem](#) (p. 104)
- [DecodeConfig](#) (p. 105)
- [DemodulationConfig](#) (p. 106)
- [Destination](#) (p. 107)
- [Eirp](#) (p. 108)
- [Elevation](#) (p. 109)
- [EndpointDetails](#) (p. 110)
- [EphemerisData](#) (p. 111)
- [EphemerisDescription](#) (p. 112)
- [EphemerisItem](#) (p. 113)
- [EphemerisMetaData](#) (p. 115)
- [EphemerisTypeDescription](#) (p. 117)
- [Frequency](#) (p. 118)
- [FrequencyBandwidth](#) (p. 119)
- [GroundStationData](#) (p. 120)
- [MissionProfileListItem](#) (p. 121)
- [OEMEphemeris](#) (p. 123)
- [S3Object](#) (p. 124)
- [S3RecordingConfig](#) (p. 125)
- [S3RecordingDetails](#) (p. 126)
- [SatelliteListItem](#) (p. 127)
- [SecurityDetails](#) (p. 129)
- [SocketAddress](#) (p. 130)
- [Source](#) (p. 131)

- [SpectrumConfig](#) (p. 132)
- [TimeRange](#) (p. 133)
- [TLEData](#) (p. 134)
- [TLEEphemeris](#) (p. 135)
- [TrackingConfig](#) (p. 136)
- [UplinkEchoConfig](#) (p. 137)
- [UplinkSpectrumConfig](#) (p. 138)

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 V2](#)
- [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. 132) 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 V2](#)
- [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. 105) object

Required: Yes

demodulationConfig

Information about the demodulation Config.

Type: [DemodulationConfig](#) (p. 106) object

Required: Yes

spectrumConfig

Information about the spectral Config.

Type: [SpectrumConfig](#) (p. 132) 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 V2](#)
- [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. 138) object

Required: Yes

targetEirp

EIRP of the target.

Type: [Eirp](#) (p. 108) 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 V2](#)
- [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 \(p. 91\)](#) object

Required: No

endpointDetails

Information about the endpoint details.

Type: [EndpointDetails \(p. 110\)](#) object

Required: No

s3RecordingDetails

Details for an S3 recording Config in a contact.

Type: [S3RecordingDetails \(p. 126\)](#) 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 V2](#)
- [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 | s3-recording

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 V2](#)
- [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 \(p. 92\)](#) object

Required: No

antennaDownlinkDemodDecodeConfig

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

Type: [AntennaDownlinkDemodDecodeConfig \(p. 93\)](#) object

Required: No

antennaUplinkConfig

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

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

Required: No

dataflowEndpointConfig

Information about the dataflow endpoint Config.

Type: [DataflowEndpointConfig \(p. 103\)](#) object

Required: No

s3RecordingConfig

Information about an S3 recording Config.

Type: [S3RecordingConfig \(p. 125\)](#) 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 \(p. 136\)](#) 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 \(p. 137\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

ContactData

Data describing a contact.

Contents

contactId

UUID of a contact.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

contactStatus

Status of a contact.

Type: String

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

Required: No

endTime

End time of a contact in UTC.

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 \(p. 109\)](#) 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 in UTC.

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 V2](#)
- [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 \(p. 107\)](#) object

Required: No

errorMessage

Error message for a dataflow.

Type: String

Required: No

source

Dataflow details for the source side.

Type: [Source \(p. 131\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

DataflowEndpoint

Information about a dataflow endpoint.

Contents

address

Socket address of a dataflow endpoint.

Type: [SocketAddress](#) (p. 130) 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 V2](#)
- [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 V2](#)
- [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

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{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 V2](#)
- [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 V2](#)
- [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 V2](#)
- [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 \(p. 95\)](#) object

Required: No

configId

UUID of a Config.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

configType

Type of a Config.

Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink
| dataflow-endpoint | tracking | uplink-echo | s3-recording

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

EndpointDetails

Information about the endpoint details.

Contents

endpoint

A dataflow endpoint.

Type: [DataflowEndpoint](#) (p. 102) object

Required: No

securityDetails

Endpoint security details including a list of subnets, a list of security groups and a role to connect streams to instances.

Type: [SecurityDetails](#) (p. 129) 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 V2](#)
- [AWS SDK for Ruby V3](#)

EphemerisData

Ephemeris data.

Contents

oem

Ephemeris data in Orbit Ephemeris Message (OEM) format.

Type: [OEMEphemeris \(p. 123\)](#) object

Required: No

tle

Two-line element set (TLE) ephemeris.

Type: [TLEEphemeris \(p. 135\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

EphemerisDescription

Description of ephemeris.

Contents

ephemerisData

Supplied ephemeris data.

Type: String

Length Constraints: Minimum length of 1.

Pattern: ^[\s\S]+\$

Required: No

sourceS3Object

Source S3 object used for the ephemeris.

Type: [S3Object \(p. 124\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

EphemerisItem

Ephemeris item.

Contents

creationTime

The time the ephemeris was uploaded in UTC.

Type: Timestamp

Required: No

enabled

Whether or not the ephemeris is enabled.

Type: Boolean

Required: No

ephemerisId

The AWS Ground Station ephemeris ID.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

name

A name string associated with the ephemeris. Used as a human-readable identifier for the ephemeris.

Type: String

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

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

Required: No

priority

Customer-provided priority score to establish the order in which overlapping ephemerides should be used.

The default for customer-provided ephemeris priority is 1, and higher numbers take precedence.

Priority must be 1 or greater

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 99999.

Required: No

sourceS3Object

Source S3 object used for the ephemeris.

Type: [S3Object \(p. 124\)](#) object

Required: No

status

The status of the ephemeris.

Type: String

Valid Values: VALIDATING | INVALID | ERROR | ENABLED | DISABLED | EXPIRED

Required: No

See Also

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

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

EphemerisMetaData

Metadata describing a particular ephemeris.

Contents

ephemerisId

UUID of a customer-provided ephemeris.

This field is not populated for default ephemerides from Space Track.

Type: String

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

epoch

The epoch of a default, ephemeris from Space Track in UTC.

This field is not populated for customer-provided ephemerides.

Type: Timestamp

Required: No

name

A name string associated with the ephemeris. Used as a human-readable identifier for the ephemeris.

A name is only returned for customer-provider ephemerides that have a name associated.

Type: String

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

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

Required: No

source

The `EphemerisSource` that generated a given ephemeris.

Type: String

Valid Values: `CUSTOMER_PROVIDED` | `SPACE_TRACK`

Required: Yes

See Also

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

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

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

EphemerisTypeDescription

Contents

oem

Description of ephemeris.

Type: [EphemerisDescription \(p. 112\)](#) object

Required: No

tle

Description of ephemeris.

Type: [EphemerisDescription \(p. 112\)](#) 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 V2](#)
- [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 V2](#)
- [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 V2](#)
- [AWS SDK for Ruby V3](#)

GroundStationData

Information about the ground station data.

Contents

groundStationId

UUID of a ground station.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:={4,256}$`

Required: No

groundStationName

Name of a ground station.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:={4,256}$`

Required: No

region

Ground station Region.

Type: String

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

Pattern: `^[\\w-]+$`

Required: No

See Also

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

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

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

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

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

name

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

region

Region of a mission profile.

Type: String

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

Pattern: `^[\\w-]+$`

Required: No

See Also

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

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

OEMEphemeris

Ephemeris data in Orbit Ephemeris Message (OEM) format.

Contents

oemData

The data for an OEM ephemeris, supplied directly in the request rather than through an S3 object.

Type: String

Length Constraints: Minimum length of 1.

Pattern: `^\s\S]+$`

Required: No

s3Object

Identifies the S3 object to be used as the ephemeris.

Type: [S3Object \(p. 124\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

S3Object

Object stored in S3 containing ephemeris data.

Contents

bucket

An Amazon S3 Bucket name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: `^[a-z0-9.-]{3,63}$`

Required: No

key

An Amazon S3 key for the ephemeris.

Type: String

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

Pattern: `^[a-zA-Z0-9!*'\)\(\./_-]{1,1024}$`

Required: No

version

For versioned S3 objects, the version to use for the ephemeris.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,1024}$`

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

S3RecordingConfig

Information about an S3 recording Config.

Contents

bucketArn

ARN of the bucket to record to.

Type: String

Required: Yes

prefix

S3 Key prefix to preface data files.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 900.

Pattern: `^([a-zA-Z0-9_\-=\/]|\\{satellite_id\\}|\\{config\\-name\\}|\\{s3\\-config-id\\}|\\{year\\}|\\{month\\}|\\{day\\}){1,900}$`

Required: No

roleArn

ARN of the role Ground Station assumes to write data to the bucket.

Type: String

Required: Yes

See Also

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

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

S3RecordingDetails

Details about an S3 recording Config used in a contact.

Contents

bucketArn

ARN of the bucket used.

Type: String

Required: No

keyTemplate

Key template used for the S3 Recording Configuration

Type: String

Required: No

See Also

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

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

SatelliteListItem

Item in a list of satellites.

Contents

currentEphemeris

The current ephemeris being used to compute the trajectory of the satellite.

Type: [EphemerisMetaData](#) (p. 115) object

Required: No

groundStations

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

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Length Constraints: Minimum length of 4. Maximum length of 500.

Pattern: `^[a-zA-Z0-9-._:={4,256}]$`

Required: No

noradSatelliteID

NORAD satellite ID number.

Type: Integer

Valid Range: Minimum value of 0. 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-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{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 V2](#)
- [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 V2](#)
- [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 V2](#)
- [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-downlink-demod-decode

Type: [ConfigDetails \(p. 95\)](#) 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 | s3-recording

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 V2](#)
- [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 \(p. 119\)](#) 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 \(p. 118\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

TimeRange

A time range with a start and end time.

Contents

endTime

Time in UTC at which the time range ends.

Type: Timestamp

Required: Yes

startTime

Time in UTC at which the time range starts.

Type: Timestamp

Required: Yes

See Also

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

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

TLEData

Two-line element set (TLE) data.

Contents

tleLine1

First line of two-line element set (TLE) data.

Type: String

Length Constraints: Fixed length of 69.

Pattern: `^1 [0-9]{5}[A-Z] [0-9]{5}[A-Z]{3} [0-9]{5}[.][0-9]{8} (?:(?: [0+-.][.][0-9]{8})|(?: [+-.][.][0-9]{7})) [+-][0-9]{5}[+-][0-9] [+-][0-9]{5}[+-][0-9] [0-9] [0-9]{4}[0-9]$`

Required: Yes

tleLine2

Second line of two-line element set (TLE) data.

Type: String

Length Constraints: Fixed length of 69.

Pattern: `^2 [0-9]{5} [0-9]{3}[.][0-9]{4} [0-9]{3}[.][0-9]{4} [0-9]{7} [0-9]{3}[.][0-9]{4} [0-9]{3}[.][0-9]{4} [0-9]{2}[.][0-9]{13}[0-9]$`

Required: Yes

validTimeRange

The valid time range for the TLE. Gaps or overlap are not permitted.

Type: [TimeRange](#) (p. 133) 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 V2](#)
- [AWS SDK for Ruby V3](#)

TLEphemericis

Two-line element set (TLE) ephemeris.

Contents

s3Object

Identifies the S3 object to be used as the ephemeris.

Type: [S3Object](#) (p. 124) object

Required: No

tleData

The data for a TLE ephemeris, supplied directly in the request rather than through an S3 object.

Type: Array of [TLEData](#) (p. 134) objects

Array Members: Minimum number of 1 item. Maximum number of 500 items.

Required: No

See Also

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

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

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 V2](#)
- [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 V2](#)
- [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 \(p. 118\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400