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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 April 2, 2020.
Actions

The following actions are supported:

- CancelContact (p. 3)
- CreateConfig (p. 5)
- CreateDataflowEndpointGroup (p. 9)
- CreateMissionProfile (p. 12)
- DeleteConfig (p. 15)
- DeleteDataflowEndpointGroup (p. 17)
- DeleteMissionProfile (p. 19)
- DescribeContact (p. 21)
- GetConfig (p. 24)
- GetDataflowEndpointGroup (p. 28)
- GetMinuteUsage (p. 31)
- GetMissionProfile (p. 34)
- GetSatellite (p. 37)
- ListConfigs (p. 39)
- ListContacts (p. 41)
- ListDataflowEndpointGroups (p. 45)
- ListGroundStations (p. 47)
- ListMissionProfiles (p. 49)
- ListSatellites (p. 51)
- ListTagsForResource (p. 53)
- ReserveContact (p. 55)
- TagResource (p. 58)
- UntagResource (p. 60)
- UpdateConfig (p. 62)
- UpdateMissionProfile (p. 66)
CancelContact

Cancels a contact with a specified contact ID.

Request Syntax

DELETE /contact/contactId HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

contactId (p. 3)

UUID of a contact.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "contactId": "string"
}

Response Elements

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

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

contactId (p. 3)

UUID of a contact.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531
InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Creates a Config with the specified configData parameters.

Only one type of configData can be specified.

Request Syntax

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

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

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"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. 74) object
- Required: Yes

name (p. 5)
- Name of a Config.
- Type: String
- Pattern: ^[ a-zA-Z0-9-_:]{1,256}$
- Required: Yes

tags (p. 5)
- Tags assigned to a Config.
- Type: String to string map
- Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "configArn": "string",
  "configId": "string",
  "configType": "string"
Response Elements

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

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

**configArn (p. 6)**

ARN of a Config.

Type: String

**configId (p. 6)**

UUID of a Config.

Type: String

**configType (p. 6)**

Type of a Config.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceLimitExceeded Exception**

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:
See Also

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

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

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

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

Request Syntax

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

{
    "endpointDetails": [
        {
            "endpoint": {
                "address": {
                    "name": "string",
                    "port": 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. 85) objects

Required: Yes

**tags (p. 9)**

Tags of a dataflow endpoint group.

Type: String to string map

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Response Syntax

HTTP/1.1 200
Content-type: application/json
{
   "dataflowEndpointGroupId": "string"
}

Response Elements

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

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

dataflowEndpointGroupId (p. 10)
   UUID of a dataflow endpoint group.
   Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

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
See Also

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

Creates a mission profile.

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

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

contactPostPassDurationSeconds (p. 12)

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

Type: Integer

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

Required: No

contactPrePassDurationSeconds (p. 12)

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

Type: Integer

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

Required: No

dataflowEdges (p. 12)

A list of lists of ARNs. Each list of ARNs is an edge, with a from Config and a to Config.
Type: Array of arrays of strings

Array Members: Fixed number of 2 items.

Required: Yes

**minimumViableContactDurationSeconds (p. 12)**

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

Type: Integer

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

Required: Yes

**name (p. 12)**

Name of a mission profile.

Type: String

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

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

Required: Yes

**tags (p. 12)**

Tags assigned to a mission profile.

Type: String to string map

Required: No

**trackingConfigArn (p. 12)**

ARN of a tracking Config.

Type: String

Required: Yes

---

**Response Syntax**

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

{
    "missionProfileId": "string"
}
```

**Response Elements**

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

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

**missionProfileId (p. 13)**

UUID of a mission profile.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Deletes a Config.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

- `configId (p. 15)`
  - UUID of a Config.
- `configType (p. 15)`
  - Type of a Config.
  - Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink | dataflow-endpoint | tracking | uplink-echo

Request Body

The request does not have a request body.

Response Syntax

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

{
   "configArn": "string",
   "configId": "string",
   "configType": "string"
}
```

Response Elements

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

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

- `configArn (p. 15)`
  - ARN of a Config.
  - Type: String
- `configId (p. 15)`
  - UUID of a Config.
  - Type: String
configType (p. 15)

Type of a Config.

Type: String

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Deletes a dataflow endpoint group.

Request Syntax

DELETE /dataflowEndpointGroup/dataflowEndpointGroupId HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

dataflowEndpointGroupId (p. 17)

UUID of a dataflow endpoint group.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
   "dataflowEndpointGroupId": "string"
}

Response Elements

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

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

dataflowEndpointGroupId (p. 17)

UUID of a dataflow endpoint group.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531
InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Deletes a mission profile.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

- **missionProfileId** (p. 19)
  - UUID of a mission profile.

Request Body

The request does not have a request body.

Response Syntax

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

Response Elements

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

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

- **missionProfileId** (p. 19)
  - UUID of a mission profile.
  - Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

- **DependencyException**
  - Dependency encountered an error.
  - HTTP Status Code: 531
InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Describes an existing contact.

Request Syntax

GET /contact/contactId HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

- **contactId** (p. 21)
  
  UUID of a contact.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

```json
{
  "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"
  }
}
```

Response Elements

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

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

- **contactId** (p. 21)
  
  UUID of a contact.
**Response Elements**

**contactStatus (p. 21)**

Status of a contact.

Type: String

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

**endTime (p. 21)**

End time of a contact.

Type: Timestamp

**errorMessage (p. 21)**

Error message for a contact.

Type: String

**groundStation (p. 21)**

Ground station for a contact.

Type: String

**maximumElevation (p. 21)**

Maximum elevation angle of a contact.

Type: Elevation (p. 84) object

**missionProfileArn (p. 21)**

ARN of a mission profile.

Type: String

**postPassEndTime (p. 21)**

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

Type: Timestamp

**prePassStartTime (p. 21)**

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

Type: Timestamp

**region (p. 21)**

Region of a contact.

Type: String

**satelliteArn (p. 21)**

ARN of a satellite.

Type: String
**startTime (p. 21)**

Start time of a contact.

Type: Timestamp

**tags (p. 21)**

Tags assigned to a contact.

Type: String to string map

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 99).

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434

---

**See Also**

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

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

Returns Config information.

Only one Config response can be returned.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

`configId (p. 24)`

UUID of a Config.

`configType (p. 24)`

Type of a Config.

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

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
}
},
"dataflowEndpointConfig": {
"dataflowEndpointName": "string",
"dataflowEndpointRegion": "string"
},
"trackingConfig": {
"autotrack": "string"
},
"uplinkEchoConfig": {
"antennaUplinkConfigArn": "string",
"enabled": boolean
}
},
"configId": "string",
"configType": "string",
"name": "string",
"tags": {
"string": "string"
}
}

Response Elements

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

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

**configArn (p. 24)**

ARN of a Config

Type: String

**configData (p. 24)**

Data elements in a Config.

Type: ConfigTypeData (p. 74) object
configId (p. 24)
---
UUID of a Config.
  
  Type: String

configType (p. 24)
---
Type of a Config.
  
  Type: String

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

name (p. 24)
---
Name of a Config.
  
  Type: String

tag (p. 24)
---
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. 99).

DependencyException
---
Dependency encountered an error.
  
  HTTP Status Code: 531

InvalidParameterException
---
One or more parameters are not valid.
  
  HTTP Status Code: 431

ResourceNotFoundException
---
Resource was not found.
  
  HTTP Status Code: 434

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

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

Returns the dataflow endpoint group.

**Request Syntax**

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

**URI Request Parameters**

The request requires the following URI parameters.

- `dataflowEndpointGroupId (p. 28)`
  
  UUID of a dataflow endpoint group.

**Request Body**

The request does not have a request body.

**Response Syntax**

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

{
  "dataflowEndpointGroupArn": "string",
  "dataflowEndpointGroupId": "string",
  "endpointsDetails": [
    {
      "endpoint": {
        "address": {
          "name": "string",
          "port": 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. 28)

ARN of a dataflow endpoint group.
Type: String

dataflowEndpointGroupId (p. 28)

UUID of a dataflow endpoint group.
Type: String

equipmentsDetails (p. 28)

Details of a dataflow endpoint.
Type: Array of EndpointDetails (p. 85) objects

tags (p. 28)

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. 99).

DependencyException

Dependency encountered an error.
HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.
HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.
HTTP Status Code: 434

See Also

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

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

Returns the number of minutes used by account.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

month (p. 31)

   The month being requested, with a value of 1-12.
   Type: Integer
   Required: Yes

year (p. 31)

   The year being requested, in the format of YYYY.
   Type: Integer
   Required: Yes

Response Syntax

HTTP/1.1 200
Content-type: application/json

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

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**estimatedMinutesRemaining (p. 31)**

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

Type: Integer

**isReservedMinutesCustomer (p. 31)**

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. 31)**

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

Type: Integer

**totalScheduledMinutes (p. 31)**

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

Type: Integer

**upcomingMinutesScheduled (p. 31)**

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. 99).

**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++
See Also

- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetMissionProfile

Returns a mission profile.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

`missionProfileId (p. 34)`

UUID of a mission profile.

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. 34)`

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

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

**contactPrePassDurationSeconds (p. 34)**

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

Type: Integer

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

**dataflowEdges (p. 34)**

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

Type: Array of arrays of strings

Array Members: Fixed number of 2 items.

**minimumViableContactDurationSeconds (p. 34)**

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. 34)**

ARN of a mission profile.

Type: String

**missionProfileId (p. 34)**

UUID of a mission profile.

Type: String

**name (p. 34)**

Name of a mission profile.

Type: String

**region (p. 34)**

Region of a mission profile.

Type: String

**tags (p. 34)**

Tags assigned to a mission profile.

Type: String to string map

**trackingConfigArn (p. 34)**

ARN of a tracking Config.

Type: String

---

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 99)](#).
DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a satellite.

Request Syntax

GET /satellite/satelliteId HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

satelliteId (p. 37)

UUID of a satellite.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

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

Response Elements

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

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

groundStations (p. 37)

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

Type: Array of strings

noradSatelliteID (p. 37)

NORAD satellite ID number.

Type: Integer


satelliteArn (p. 37)

ARN of a satellite.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of Config objects.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

- **maxResults (p. 39)**
  
  Maximum number of Configs returned.

- **nextToken (p. 39)**
  
  Next token returned in the request of a previous ListConfigs call. Used to get the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```plaintext
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. 39)**

  List of Config items.

  Type: Array of ConfigListItem (p. 73) objects
nextToken (p. 39)

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

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of contacts.

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

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

**endTime (p. 41)**

End time of a contact.

Type: Timestamp

Required: Yes

**groundStation (p. 41)**

Name of a ground station.

Type: String

Required: No

**maxResults (p. 41)**

Maximum number of contacts returned.

Type: Integer

Required: No

**missionProfileArn (p. 41)**

ARN of a mission profile.

Type: String

Required: No
**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"
      }
    }
  ]
}```

Required: No

**nextToken (p. 41)**

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

Required: No

**satelliteArn (p. 41)**

ARN of a satellite.
Type: String

Required: No

**startTime (p. 41)**

Start time of a contact.
Type: Timestamp

Required: Yes

**statusList (p. 41)**

Status of a contact reservation.
Type: Array of strings

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

Required: Yes
Response 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. 42)**

- List of contacts.
  - Type: Array of [ContactData (p. 76)]

**nextToken (p. 42)**

- Next token returned in the response of a previous ListContacts call. Used to get the next page of results.
  - Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 99)].

**DependencyException**

- Dependency encountered an error.
  - HTTP Status Code: 531

**InvalidParameterException**

- One or more parameters are not valid.
  - HTTP Status Code: 431

**ResourceNotFoundException**

- Resource was not found.
  - HTTP Status Code: 434

See Also

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

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

Returns a list of DataflowEndpoint groups.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

- **maxResults (p. 45)**
  
  Maximum number of dataflow endpoint groups returned.

- **nextToken (p. 45)**
  
  Next token returned in the request of a previous ListDataflowEndpointGroups call. Used to get the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "dataflowEndpointGroupList": [
      {
         "dataflowEndpointGroupArn": "string",
         "dataflowEndpointGroupId": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

- **dataflowEndpointGroupList (p. 45)**
  
  A list of dataflow endpoint groups.

  Type: Array of DataflowEndpointListItem (p. 80) objects

- **nextToken (p. 45)**
  
  Next token returned in the response of a previous ListDataflowEndpointGroups call. Used to get the next page of results.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of ground stations.

Request Syntax

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

```

URI Request Parameters

The request requires the following URI parameters.

- **maxResults (p. 47)**
  
  Maximum number of ground stations returned.

- **nextToken (p. 47)**
  
  Next token that can be supplied in the next call to get the next page of ground stations.

- **satelliteId (p. 47)**
  
  Satellite ID to retrieve on-boarded ground stations.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "groundStationList": [
    {
      "groundStationId": "string",
      "groundStationName": "string",
      "region": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

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

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

- **groundStationList (p. 47)**
  
  List of ground stations.
Type: Array of `GroundStationData (p. 88)` objects

`nextToken (p. 47)`

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

Type: String

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 99)`.

`DependencyException`

Dependency encountered an error.

HTTP Status Code: 531

`InvalidParameterException`

One or more parameters are not valid.

HTTP Status Code: 431

`ResourceNotFoundException`

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of mission profiles.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 49)

Maximum number of mission profiles returned.

nextToken (p. 49)

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

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  
  "missionProfileList": [  
    {  
      "missionProfileArn": "string",
      "missionProfileId": "string",
      "name": "string",
      "region": "string"
    },  
    "nextToken": "string"
  ]
}

Response Elements

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

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

missionProfileList (p. 49)

List of mission profiles.

Type: Array of MissionProfileListItem (p. 89) objects
nextToken (p. 49)

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

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of satellites.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 51)

Maximum number of satellites returned.

nextToken (p. 51)

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

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

nextToken (p. 51)

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

Type: String

satellites (p. 51)

List of satellites.
Type: Array of SatelliteListItem (p. 90) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Returns a list of tags for a specified resource.

Request Syntax

GET /tags/resourceArn HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 53)

ARN of a resource.

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. 53)

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. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531
InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Reserves a contact using specified parameters.

Request Syntax

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

{
  "endTime": number,
  "groundStation": "string",
  "missionProfileArn": "string",
  "satelliteArn": "string",
  "startTime": number,
  "tags": {
    "String": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

- **endTime (p. 55)**
  - End time of a contact.
  - Type: Timestamp
  - Required: Yes

- **groundStation (p. 55)**
  - Name of a ground station.
  - Type: String
  - Required: Yes

- **missionProfileArn (p. 55)**
  - ARN of a mission profile.
  - Type: String
  - Required: Yes

- **satelliteArn (p. 55)**
  - ARN of a satellite
  - Type: String
  - Required: Yes
**startTime** *(p. 55)*

Start time of a contact.

Type: Timestamp

Required: Yes

**tags** *(p. 55)*

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. 56)*

UUID of a contact.

Type: String

---

**Errors**

For information about the errors that are common to all actions, see *Common Errors (p. 99).*

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434
See Also

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

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

Assigns a tag to a resource.

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

- `resourceArn (p. 58)`
  - ARN of a resource tag.

Request Body

The request accepts the following data in JSON format.

- `tags (p. 58)`
  - 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. 99).

- `DependencyException`
  - Dependency encountered an error.
  - HTTP Status Code: 531
InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Deassigns a resource tag.

Request Syntax

DELETE /tags/{resourceArn}?tagKeys={tagKeys} HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 60)

ARN of a resource.

tagKeys (p. 60)

Keys of a resource tag.

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. 99).

DependencyException

Dependency encountered an error.

HTTP Status Code: 531

InvalidParameterException

One or more parameters are not valid.

HTTP Status Code: 431

ResourceNotFoundException

Resource was not found.

HTTP Status Code: 434
See Also

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

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

Updates the Config used when scheduling contacts.

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

Request Syntax

```json
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
            }
        },
        "dataflowEndpointConfig": {
            "dataflowEndpointName": "string",
            "dataflowEndpointRegion": "string"
        }
    }
}
```
URI Request Parameters

The request requires the following URI parameters.

configId (p. 62)

UUID of a Config.

configType (p. 62)

Type of a Config.

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

Request Body

The request accepts the following data in JSON format.

configData (p. 62)

Parameters of a Config.

Type: ConfigTypeData (p. 74) object

Required: Yes

name (p. 62)

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.

```json
configArn (p. 63)
  ARN of a Config.
  Type: String
configId (p. 63)
  UUID of a Config.
  Type: String
configType (p. 63)
  Type of a Config.
  Type: String
  Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink | dataflow-endpoint | tracking | uplink-echo
```

Errors

For information about the errors that are common to all actions, see Common Errors (p. 99).

**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434

See Also

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

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

Updates a mission profile.

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

Request Syntax

```plaintext
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 requires the following URI parameters.

missionProfileId (p. 66)

UUID of a mission profile.

Request Body

The request accepts the following data in JSON format.

contactPostPassDurationSeconds (p. 66)

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

Type: Integer

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

Required: No

contactPrePassDurationSeconds (p. 66)

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

Type: Integer

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

Required: No

dataflowEdges (p. 66)

A list of lists of ARNs. Each list of ARNs is an edge, with a from Config and a to Config.
Type: Array of arrays of strings
Array Members: Fixed number of 2 items.
Required: No
minimumViableContactDurationSeconds (p. 66)
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. 66)
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. 66)
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. 67)
UUID of a mission profile.
Type: String

Errors
For information about the errors that are common to all actions, see Common Errors (p. 99).
**DependencyException**

Dependency encountered an error.

HTTP Status Code: 531

**InvalidParameterException**

One or more parameters are not valid.

HTTP Status Code: 431

**ResourceNotFoundException**

Resource was not found.

HTTP Status Code: 434

---

**See Also**

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

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

The AWS Ground Station API contains several data types that various actions use. This section describes each data type in detail.

Note
The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- `AntennaDownlinkConfig (p. 70)`
- `AntennaDownlinkDemodDecodeConfig (p. 71)`
- `AntennaUplinkConfig (p. 72)`
- `ConfigListitem (p. 73)`
- `ConfigTypeData (p. 74)`
- `ContactData (p. 76)`
- `DataflowEndpoint (p. 78)`
- `DataflowEndpointConfig (p. 79)`
- `DataflowEndpointListitem (p. 80)`
- `DecodeConfig (p. 81)`
- `DemodulationConfig (p. 82)`
- `Eirp (p. 83)`
- `Elevation (p. 84)`
- `EndpointDetails (p. 85)`
- `Frequency (p. 86)`
- `FrequencyBandwidth (p. 87)`
- `GroundStationData (p. 88)`
- `MissionProfileListitem (p. 89)`
- `SatelliteListitem (p. 90)`
- `SecurityDetails (p. 91)`
- `SocketAddress (p. 92)`
- `SpectrumConfig (p. 93)`
- `TrackingConfig (p. 94)`
- `UplinkEchoConfig (p. 95)`
- `UplinkSpectrumConfig (p. 96)`
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. 93) object

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
AntennaDownlinkDemodDecodeConfig

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

Contents

decodeConfig

Information about the decode Config.

Type: DecodeConfig (p. 81) object

Required: Yes

demodulationConfig

Information about the demodulation Config.

Type: DemodulationConfig (p. 82) object

Required: Yes

spectrumConfig

Information about the spectral Config.

Type: SpectrumConfig (p. 93) object

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
AntennaUplinkConfig

Information about the uplink Config of an antenna.

Contents

spectrumConfig

Information about the uplink spectral Config.

Type: UplinkSpectrumConfig (p. 96) object

Required: Yes

targetEirp

EIRP of the target.

Type: Eirp (p. 83) object

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
ConfigListItem

An item in a list of Config objects.

Contents

configArn

ARN of a Config.
Type: String
Required: No

configId

UUID of a Config.
Type: String
Required: No

configType

Type of a Config.
Type: String

Valid Values: antenna-downlink | antenna-downlink-demod-decode | antenna-uplink | dataflow-endpoint | tracking | uplink-echo
Required: No

name

Name of a Config.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
**ConfigTypeData**

Object containing the parameters of a Config.

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

**Contents**

- **antennaDownlinkConfig**
  - Information about how AWS Ground Station should configure an antenna for downlink during a contact.
  - Type: `AntennaDownlinkConfig (p. 70)` object
  - Required: No

- **antennaDownlinkDemodDecodeConfig**
  - Information about how AWS Ground Station should configure an antenna for downlink demod decode during a contact.
  - Type: `AntennaDownlinkDemodDecodeConfig (p. 71)` object
  - Required: No

- **antennaUplinkConfig**
  - Information about how AWS Ground Station should configure an antenna for uplink during a contact.
  - Type: `AntennaUplinkConfig (p. 72)` object
  - Required: No

- **dataflowEndpointConfig**
  - Information about the dataflow endpoint Config.
  - Type: `DataflowEndpointConfig (p. 79)` 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. 94)` 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. 95)` object
  - Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
ContactData

Data describing a contact.

Contents

contactId

UUID of a contact.
Type: String
Required: No

contactStatus

Status of a contact.
Type: String
Valid Values: AVAILABLE | AWS_CANCELED | CANCELED | CANCELLING | COMPLETED |
| FAILED | FAILED_TO_SCHEDULE | PASS | POSTPASS | PREPASS | SCHEDULED | SCHEDULING
Required: No

endTime

End time of a contact.
Type: Timestamp
Required: No

errorMessage

Error message of a contact.
Type: String
Required: No

groundStation

Name of a ground station.
Type: String
Required: No

maximumElevation

Maximum elevation angle of a contact.
Type: Elevation (p. 84) object
Required: No

missionProfileArn

ARN of a mission profile.
Type: String
postPassEndTime

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

Type: Timestamp

Required: No

prePassStartTime

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

Type: Timestamp

Required: No

region

Region of a contact.

Type: String

Required: No

satelliteArn

ARN of a satellite.

Type: String

Required: No

startTime

Start time of a contact.

Type: Timestamp

Required: No

tags

Tags assigned to a contact.

Type: String to string map

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
**DataflowEndpoint**

Information about a dataflow endpoint.

**Contents**

**address**

Socket address of a dataflow endpoint.

Type: `SocketAddress (p. 92)` object

Required: No

**name**

Name of a dataflow endpoint.

Type: String

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

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

Required: No

**status**

Status of a dataflow endpoint.

Type: String

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

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DataflowEndpointConfig

Information about the dataflow endpoint Config.

Contents

dataflowEndpointName
   Name of a dataflow endpoint.
   Type: String
   Required: Yes

dataflowEndpointRegion
   Region of a dataflow endpoint.
   Type: String
   Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DataflowEndpointListItem

Item in a list of DataflowEndpoint groups.

Contents

dataflowEndpointGroupArn

ARN of a dataflow endpoint group.

Type: String

Required: No

dataflowEndpointGroupId

UUID of a dataflow endpoint group.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DecodeConfig

Information about the decode Config.

Contents

unvalidatedJSON

Unvalidated JSON of a decode Config.

Type: String


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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DemodulationConfig

Information about the demodulation Config.

Contents

unvalidatedJSON

Unvalidated JSON of a demodulation Config.

Type: String


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

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
**Eirp**

Object that represents EIRP.

**Contents**

**units**

Units of an EIRP.

Type: String

Valid Values: dBW

Required: Yes

**value**

Value of an EIRP.

Type: Double

Required: Yes

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Elevation

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

Contents

unit

Elevation angle units.
Type: String
Valid Values: DEGREE_ANGLE | RADIAN
Required: Yes

value

Elevation angle value.
Type: Double
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
EndpointDetails

Information about the endpoint details.

Contents

endpoint

A dataflow endpoint.

Type: DataflowEndpoint (p. 78) object

Required: No

securityDetails

Endpoint security details.

Type: SecurityDetails (p. 91) object

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Frequency

Object that describes the frequency.

Contents

units

Frequency units.
Type: String
Valid Values: GHz | MHz | kHz
Required: Yes

value

Frequency value.
Type: Double
Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
**FrequencyBandwidth**

Object that describes the frequency bandwidth.

**Contents**

**units**

Frequency bandwidth units.

Type: String

Valid Values: GHz | MHz | kHz

Required: Yes

**value**

Frequency bandwidth value.

Type: Double

Required: Yes

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
GroundStationData

Information about the ground station data.

Contents

**groundStationId**

UUID of a ground station.
Type: String
Required: No

**groundStationName**

Name of a ground station.
Type: String
Required: No

**region**

Ground station Region.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
MissionProfileListItem

Item in a list of mission profiles.

Contents

missionProfileArn

ARN of a mission profile.
Type: String
Required: No

missionProfileId

UUID of a mission profile.
Type: String
Required: No

name

Name of a mission profile.
Type: String
Required: No

region

Region of a mission profile.
Type: String
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
SatelliteListItem

Item in a list of satellites.

Contents

groundStations

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

Type: Array of strings

Required: No

noradSatelliteID

NORAD satellite ID number.

Type: Integer


Required: No

satelliteArn

ARN of a satellite.

Type: String

Required: No

satelliteId

UUID of a satellite.

Type: String


Pattern: [a-zA-F0-9]{8}-[a-zA-F0-9]{4}-[a-zA-F0-9]{4}-[a-zA-F0-9]{4}-[a-zA-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
- AWS SDK for Ruby V3
SecurityDetails

Information about endpoints.

Contents

roleArn

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

Type: String

Required: Yes

securityGroupIds

The security groups to attach to the elastic network interfaces.

Type: Array of strings

Required: Yes

subnetIds

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

Type: Array of strings

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
SocketAddress

Information about the socket address.

Contents

name

Name of a socket address.

Type: String

Required: Yes

port

Port of a socket address.

Type: Integer

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
SpectrumConfig

Object that describes a spectral Config.

Contents

bandwidth

Bandwidth of a spectral Config.
Type: FrequencyBandwidth (p. 87) object
Required: Yes

centerFrequency

Center frequency of a spectral Config.
Type: Frequency (p. 86) object
Required: Yes

polarization

Polarization of a spectral Config.
Type: String
Valid Values: LEFT_HAND | NONE | RIGHT_HAND
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
TrackingConfig

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

### Contents

autotrack

Current setting for autotrack.

Type: String

Valid Values: PREFERRED | REMOVED | REQUIRED

Required: Yes

### See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
UplinkEchoConfig

Information about an uplink echo Config.

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

Contents

antennaUplinkConfigArn

ARN of an uplink Config.

Type: String

Required: Yes

enabled

Whether or not an uplink Config is enabled.

Type: Boolean

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
UplinkSpectrumConfig

Information about the uplink spectral Config.

Contents

centerFrequency

Center frequency of an uplink spectral Config.

Type: Frequency (p. 86) object

Required: Yes

polarization

Polarization of an uplink spectral Config.

Type: String

Valid Values: LEFT_HAND | NONE | RIGHT_HAND

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Common Parameters

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

**Action**

The action to be performed.

*Type*: string

*Required*: Yes

**Version**

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

*Type*: string

*Required*: Yes

**X-Amz-Algorithm**

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

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

*Type*: string

*Valid Values*: AWS4-HMAC-SHA256

*Required*: Conditional

**X-Amz-Credential**

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

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

*Type*: string

*Required*: Conditional

**X-Amz-Date**

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

*Condition*: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is
not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

Type: string
Required: Conditional

X-Amz-Security-Token

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

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

Type: string
Required: Conditional

X-Amz-Signature

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

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

Type: string
Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string
Required: Conditional
Common Errors

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

AccessDeniedException
You do not have sufficient access to perform this action.
HTTP Status Code: 400

IncompleteSignature
The request signature does not conform to AWS standards.
HTTP Status Code: 400

InternalFailure
The request processing has failed because of an unknown error, exception or failure.
HTTP Status Code: 500

InvalidAction
The action or operation requested is invalid. Verify that the action is typed correctly.
HTTP Status Code: 400

InvalidClientTokenId
The X.509 certificate or AWS access key ID provided does not exist in our records.
HTTP Status Code: 403

InvalidParameterCombination
Parameters that must not be used together were used together.
HTTP Status Code: 400

InvalidParameterValue
An invalid or out-of-range value was supplied for the input parameter.
HTTP Status Code: 400

InvalidQueryParameter
The AWS query string is malformed or does not adhere to AWS standards.
HTTP Status Code: 400

MalformedQueryString
The query string contains a syntax error.
HTTP Status Code: 404

MissingAction
The request is missing an action or a required parameter.
HTTP Status Code: 400
**MissingAuthenticationToken**

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

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**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