
AWS IoT Wireless

API Reference

API Version 2020-11-22



AWS IoT Wireless: API Reference

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Welcome

AWS IoT Wireless provides bi-directional communication between internet-connected wireless devices and the AWS Cloud. To onboard both LoRaWAN and Sidewalk devices to AWS IoT, use the IoT Wireless API. These wireless devices use the Low Power Wide Area Networking (LPWAN) communication protocol to communicate with AWS IoT.

Using the API, you can perform create, read, update, and delete operations for your wireless devices, gateways, destinations, and profiles. After onboarding your devices, you can use the API operations to set log levels and monitor your devices with CloudWatch.

You can also use the API operations to create multicast groups and schedule a multicast session for sending a downlink message to devices in the group. By using Firmware Updates Over-The-Air (FUOTA) API operations, you can create a FUOTA task and schedule a session to update the firmware of individual devices or an entire group of devices in a multicast group.

This document was last published on November 23, 2022.

Actions

The following actions are supported:

- [AssociateAwsAccountWithPartnerAccount \(p. 5\)](#)
- [AssociateMulticastGroupWithFuotaTask \(p. 8\)](#)
- [AssociateWirelessDeviceWithFuotaTask \(p. 10\)](#)
- [AssociateWirelessDeviceWithMulticastGroup \(p. 12\)](#)
- [AssociateWirelessDeviceWithThing \(p. 14\)](#)
- [AssociateWirelessGatewayWithCertificate \(p. 16\)](#)
- [AssociateWirelessGatewayWithThing \(p. 19\)](#)
- [CancelMulticastGroupSession \(p. 21\)](#)
- [CreateDestination \(p. 23\)](#)
- [CreateDeviceProfile \(p. 27\)](#)
- [CreateFuotaTask \(p. 30\)](#)
- [CreateMulticastGroup \(p. 34\)](#)
- [CreateNetworkAnalyzerConfiguration \(p. 37\)](#)
- [CreateServiceProfile \(p. 41\)](#)
- [CreateWirelessDevice \(p. 44\)](#)
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- [GetLogLevelsByResourceTypes \(p. 106\)](#)
- [GetMulticastGroup \(p. 109\)](#)
- [GetMulticastGroupSession \(p. 112\)](#)
- [GetNetworkAnalyzerConfiguration \(p. 114\)](#)
- [GetPartnerAccount \(p. 117\)](#)
- [GetPosition \(p. 119\)](#)
- [GetPositionConfiguration \(p. 122\)](#)
- [GetResourceEventConfiguration \(p. 125\)](#)
- [GetResourceLogLevel \(p. 128\)](#)
- [GetServiceEndpoint \(p. 130\)](#)
- [GetServiceProfile \(p. 132\)](#)
- [GetWirelessDevice \(p. 135\)](#)
- [GetWirelessDeviceStatistics \(p. 139\)](#)
- [GetWirelessGateway \(p. 142\)](#)
- [GetWirelessGatewayCertificate \(p. 145\)](#)
- [GetWirelessGatewayFirmwareInformation \(p. 147\)](#)
- [GetWirelessGatewayStatistics \(p. 149\)](#)
- [GetWirelessGatewayTask \(p. 152\)](#)
- [GetWirelessGatewayTaskDefinition \(p. 155\)](#)
- [ListDestinations \(p. 158\)](#)
- [ListDeviceProfiles \(p. 160\)](#)
- [ListEventConfigurations \(p. 162\)](#)
- [ListFuotaTasks \(p. 165\)](#)
- [ListMulticastGroups \(p. 167\)](#)
- [ListMulticastGroupsByFuotaTask \(p. 169\)](#)
- [ListNetworkAnalyzerConfigurations \(p. 172\)](#)
- [ListPartnerAccounts \(p. 174\)](#)
- [ListPositionConfigurations \(p. 176\)](#)
- [ListQueuedMessages \(p. 179\)](#)
- [ListServiceProfiles \(p. 182\)](#)
- [ListTagsForResource \(p. 184\)](#)
- [ListWirelessDevices \(p. 186\)](#)
- [ListWirelessGateways \(p. 189\)](#)
- [ListWirelessGatewayTaskDefinitions \(p. 192\)](#)
- [PutPositionConfiguration \(p. 195\)](#)
- [PutResourceLogLevel \(p. 198\)](#)
- [ResetAllResourceLogLevels \(p. 200\)](#)
- [ResetResourceLogLevel \(p. 202\)](#)
- [SendDataToMulticastGroup \(p. 204\)](#)
- [SendDataToWirelessDevice \(p. 207\)](#)
- [StartBulkAssociateWirelessDeviceWithMulticastGroup \(p. 210\)](#)
- [StartBulkDisassociateWirelessDeviceFromMulticastGroup \(p. 213\)](#)
- [StartFuotaTask \(p. 216\)](#)
- [StartMulticastGroupSession \(p. 218\)](#)
- [TagResource \(p. 220\)](#)
- [TestWirelessDevice \(p. 222\)](#)

- [UntagResource \(p. 224\)](#)
- [UpdateDestination \(p. 226\)](#)
- [UpdateEventConfigurationByResourceTypes \(p. 229\)](#)
- [UpdateFuotaTask \(p. 232\)](#)
- [UpdateLogLevelByResourceTypes \(p. 235\)](#)
- [UpdateMulticastGroup \(p. 238\)](#)
- [UpdateNetworkAnalyzerConfiguration \(p. 241\)](#)
- [UpdatePartnerAccount \(p. 244\)](#)
- [UpdatePosition \(p. 246\)](#)
- [UpdateResourceEventConfiguration \(p. 248\)](#)
- [UpdateWirelessDevice \(p. 251\)](#)
- [UpdateWirelessGateway \(p. 254\)](#)

AssociateAwsAccountWithPartnerAccount

Associates a partner account with your AWS account.

Request Syntax

```
POST /partner-accounts HTTP/1.1
Content-type: application/json

{
    "ClientRequestToken": "string",
    "Sidewalk": {
        "AmazonId": "string",
        "AppServerPrivateKey": "string"
    },
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 5\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Sidewalk \(p. 5\)](#)

The Sidewalk account credentials.

Type: [SidewalkAccountInfo \(p. 333\)](#) object

Required: Yes

[Tags \(p. 5\)](#)

The tags to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

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

{
    "Arn": "string",
    "Sidewalk": {
        "AmazonId": "string",
        "AppServerPrivateKey": "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.

Arn (p. 6)

The Amazon Resource Name of the resource.

Type: String

Sidewalk (p. 6)

The Sidewalk account credentials.

Type: [SidewalkAccountInfo](#) (p. 333) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 360).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateMulticastGroupWithFuotaTask

Associate a multicast group with a FUOTA task.

Request Syntax

```
PUT /fuota-tasks/Id/multicast-group HTTP/1.1
Content-type: application/json

{
    "MulticastGroupId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 8)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

MulticastGroupId (p. 8)

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateWirelessDeviceWithFuotaTask

Associate a wireless device with a FUOTA task.

Request Syntax

```
PUT /fuota-tasks/Id/wireless-device HTTP/1.1
Content-type: application/json

{
    "WirelessDeviceId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 10)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

WirelessDeviceId (p. 10)

The ID of the wireless device.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateWirelessDeviceWithMulticastGroup

Associates a wireless device with a multicast group.

Request Syntax

```
PUT /multicast-groups/Id/wireless-device HTTP/1.1
Content-type: application/json

{
    "WirelessDeviceId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

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

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

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

The ID of the wireless device.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateWirelessDeviceWithThing

Associates a wireless device with a thing.

Request Syntax

```
PUT /wireless-devices/Id/thing HTTP/1.1
Content-type: application/json

{
    "ThingArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 14)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

ThingArn (p. 14)

The ARN of the thing to associate with the wireless device.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

AssociateWirelessGatewayWithCertificate

Associates a wireless gateway with a certificate.

Request Syntax

```
PUT /wireless-gateways/Id/certificate HTTP/1.1
Content-type: application/json

{
    "IotCertificateId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 16)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

IotCertificateId (p. 16)

The ID of the certificate to associate with the wireless gateway.

Type: String

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

Required: Yes

Response Syntax

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

{
    "IotCertificateId": "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.

[IoTCertificateId \(p. 16\)](#)

The ID of the certificate associated with the wireless gateway.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

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

AssociateWirelessGatewayWithThing

Associates a wireless gateway with a thing.

Request Syntax

```
PUT /wireless-gateways/Id/thing HTTP/1.1
Content-type: application/json

{
    "ThingArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 19)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

ThingArn (p. 19)

The ARN of the thing to associate with the wireless gateway.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CancelMulticastGroupSession

Cancels an existing multicast group session.

Request Syntax

```
DELETE /multicast-groups/Id/session HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 21)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateDestination

Creates a new destination that maps a device message to an AWS IoT rule.

Request Syntax

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

{
  "ClientRequestToken": "string",
  "Description": "string",
  "Expression": "string",
  "ExpressionType": "string",
  "Name": "string",
  "RoleArn": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 23\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Description \(p. 23\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[Expression \(p. 23\)](#)

The rule name or topic rule to send messages to.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

[ExpressionType \(p. 23\)](#)

The type of value in Expression.

Type: String

Valid Values: RuleName | MqttTopic

Required: Yes

[Name \(p. 23\)](#)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: Yes

[RoleArn \(p. 23\)](#)

The ARN of the IAM Role that authorizes the destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

[Tags \(p. 23\)](#)

The tags to attach to the new destination. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

Arn (p. 24)

The Amazon Resource Name of the new resource.

Type: String

Name (p. 24)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateDeviceProfile

Creates a new device profile.

Request Syntax

```
POST /device-profiles HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "LoRaWAN": {
    "ClassBTimeout": number,
    "ClassCTimeout": number,
    "FactoryPresetFreqsList": [ number ],
    "MacVersion": "string",
    "MaxDutyCycle": number,
    "MaxEirp": number,
    "PingSlotDr": number,
    "PingSlotFreq": number,
    "PingSlotPeriod": number,
    "RegParamsRevision": "string",
    "RfRegion": "string",
    "RxDataRate2": number,
    "RxDelay1": number,
    "RxDelayOffset1": number,
    "RxFreq2": number,
    "Supports32BitFCnt": boolean,
    "SupportsClassB": boolean,
    "SupportsClassC": boolean,
    "SupportsJoin": boolean
  },
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 27\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[LoRaWAN \(p. 27\)](#)

The device profile information to use to create the device profile.

Type: [LoRaWANDeviceProfile \(p. 286\)](#) object

Required: No

[Name \(p. 27\)](#)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[Tags \(p. 27\)](#)

The tags to attach to the new device profile. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

[Arn \(p. 28\)](#)

The Amazon Resource Name of the new resource.

Type: String

[Id \(p. 28\)](#)

The ID of the new device profile.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateFuotaTask

Creates a FUOTA task.

Request Syntax

```
POST /fuota-tasks HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "Description": "string",
  "FirmwareUpdateImage": "string",
  "FirmwareUpdateRole": "string",
  "LoRaWAN": {
    "RfRegion": "string"
  },
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 30\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Description \(p. 30\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[FirmwareUpdateImage \(p. 30\)](#)

The S3 URI points to a firmware update image that is to be used with a FUOTA task.

Type: String

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

Required: Yes

[FirmwareUpdateRole \(p. 30\)](#)

The firmware update role that is to be used with a FUOTA task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

[LoRaWAN \(p. 30\)](#)

The LoRaWAN information used with a FUOTA task.

Type: [LoRaWANFuotaTask \(p. 290\)](#) object

Required: No

[Name \(p. 30\)](#)

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[Tags \(p. 30\)](#)

The tag to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

[Arn \(p. 31\)](#)

The arn of a FUOTA task.

Type: String

Length Constraints: Maximum length of 128.

[Id \(p. 31\)](#)

The ID of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateMulticastGroup

Creates a multicast group.

Request Syntax

```
POST /multicast-groups HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "Description": "string",
  "LoRaWAN": {
    "D1Class": "string",
    "RfRegion": "string"
  },
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 34\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Description \(p. 34\)](#)

The description of the multicast group.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[LoRaWAN \(p. 34\)](#)

The LoRaWAN information that is to be used with the multicast group.

Type: [LoRaWANMulticast \(p. 303\)](#) object

Required: Yes

Name (p. 34)

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Tags (p. 34)

The tag to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

Arn (p. 35)

The arn of the multicast group.

Type: String

Length Constraints: Maximum length of 128.

Id (p. 35)

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateNetworkAnalyzerConfiguration

Creates a new network analyzer configuration.

Request Syntax

```
POST /network-analyzer-configurations HTTP/1.1
Content-type: application/json

{
  "ClientRequestToken": "string",
  "Description": "string",
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TraceContent": {
    "LogLevel": "string",
    "WirelessDeviceFrameInfo": "string"
  },
  "WirelessDevices": [ "string" ],
  "WirelessGateways": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 37\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Description \(p. 37\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[Name \(p. 37\)](#)

Name of the network analyzer configuration.

Type: String

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

Pattern: [a-zA-Z0-9-_]+

Required: Yes

[Tags \(p. 37\)](#)

The tag to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

[TraceContent \(p. 37\)](#)

Trace content for your wireless gateway and wireless device resources.

Type: [TraceContent \(p. 343\)](#) object

Required: No

[WirelessDevices \(p. 37\)](#)

Wireless device resources to add to the network analyzer configuration. Provide the `WirelessDeviceId` of the resource to add in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Maximum length of 256.

Required: No

[WirelessGateways \(p. 37\)](#)

Wireless gateway resources to add to the network analyzer configuration. Provide the `WirelessGatewayId` of the resource to add in the input array.

Type: Array of strings

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Name": "string"
```

}

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

Arn (p. 38)

The Amazon Resource Name of the new resource.

Type: String

Length Constraints: Maximum length of 1124.

Name (p. 38)

Name of the network analyzer configuration.

Type: String

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

Pattern: [a-zA-Z0-9-_]+

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateServiceProfile

Creates a new service profile.

Request Syntax

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

{
  "ClientRequestToken": "string",
  "LoRaWAN": {
    "AddGwMetadata": boolean,
    "DrMax": number,
    "DrMin": number
  },
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 41\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[LoRaWAN \(p. 41\)](#)

The service profile information to use to create the service profile.

Type: [LoRaWANServiceProfile \(p. 308\)](#) object

Required: No

[Name \(p. 41\)](#)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Tags (p. 41)

The tags to attach to the new service profile. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

Arn (p. 42)

The Amazon Resource Name of the new resource.

Type: String

Id (p. 42)

The ID of the new service profile.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWirelessDevice

Provisions a wireless device.

Request Syntax

```
POST /wireless-devices HTTP/1.1
Content-type: application/json

{
    "ClientRequestToken": "string",
    "Description": "string",
    "DestinationName": "string",
    "LoRaWAN": {
        "AbpV1_0_x": {
            "DevAddr": "string",
            "FCntStart": number,
            "SessionKeys": {
                "AppSKey": "string",
                "NwkSKey": "string"
            }
        },
        "AbpV1_1": {
            "DevAddr": "string",
            "FCntStart": number,
            "SessionKeys": {
                "AppSKey": "string",
                "FNwkSIntKey": "string",
                "NwkSEncKey": "string",
                "SNwkSIntKey": "string"
            }
        },
        "DevEui": "string",
        "DeviceProfileId": "string",
        "FPorts": {
            "ClockSync": number,
            "Fuota": number,
            "Multicast": number,
            "Positioning": {
                "ClockSync": number,
                "Gnss": number,
                "Stream": number
            }
        },
        "OtaaV1_0_x": {
            "AppEui": "string",
            "AppKey": "string",
            "GenAppKey": "string"
        },
        "OtaaV1_1": {
            "AppKey": "string",
            "JoinEui": "string",
            "NwkKey": "string"
        },
        "ServiceProfileId": "string"
    },
    "Name": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
},
```

```
    "Type": "string"  
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ClientRequestToken \(p. 44\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Description \(p. 44\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[DestinationName \(p. 44\)](#)

The name of the destination to assign to the new wireless device.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: Yes

[LoRaWAN \(p. 44\)](#)

The device configuration information to use to create the wireless device.

Type: [LoRaWANDevice \(p. 282\)](#) object

Required: No

[Name \(p. 44\)](#)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[Tags \(p. 44\)](#)

The tags to attach to the new wireless device. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

[Type \(p. 44\)](#)

The wireless device type.

Type: String

Valid Values: Sidewalk | LoRaWAN

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

[Arn \(p. 46\)](#)

The Amazon Resource Name of the new resource.

Type: String

[Id \(p. 46\)](#)

The ID of the new wireless device.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWirelessGateway

Provisions a wireless gateway.

Request Syntax

```
POST /wireless-gateways HTTP/1.1
Content-type: application/json

{
    "ClientRequestToken": "string",
    "Description": "string",
    "LoRaWAN": {
        "Beaconing": {
            "DataRate": number,
            "Frequencies": [ number ]
        },
        "GatewayEui": "string",
        "JoinEuiFilters": [
            [ "string" ]
        ],
        "NetIdFilters": [ "string" ],
        "RfRegion": "string",
        "SubBands": [ number ]
    },
    "Name": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientRequestToken (p. 48)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

Description (p. 48)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

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

The gateway configuration information to use to create the wireless gateway.

Type: [LoRaWANGateway \(p. 292\)](#) object

Required: Yes

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

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

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

The tags to attach to the new wireless gateway. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

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

The Amazon Resource Name of the new resource.

Type: String

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

The ID of the new wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWirelessGatewayTask

Creates a task for a wireless gateway.

Request Syntax

```
POST /wireless-gateways/Id/tasks HTTP/1.1
Content-type: application/json

{
    "WirelessGatewayTaskDefinitionId": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 51)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

WirelessGatewayTaskDefinitionId (p. 51)

The ID of the WirelessGatewayTaskDefinition.

Type: String

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Status": "string",
    "WirelessGatewayTaskDefinitionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

[Status \(p. 51\)](#)

The status of the request.

Type: String

Valid Values: PENDING | IN_PROGRESS | FIRST_RETRY | SECOND_RETRY | COMPLETED | FAILED

[WirelessGatewayTaskDefinitionId \(p. 51\)](#)

The ID of the WirelessGatewayTaskDefinition.

Type: String

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWirelessGatewayTaskDefinition

Creates a gateway task definition.

Request Syntax

```
POST /wireless-gateway-task-definitions HTTP/1.1
Content-type: application/json

{
    "AutoCreateTasks": boolean,
    "ClientRequestToken": "string",
    "Name": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ],
    "Update": {
        "LoRaWAN": {
            "CurrentVersion": {
                "Model": "string",
                "PackageVersion": "string",
                "Station": "string"
            },
            "SigKeyCrc": number,
            "UpdateSignature": "string",
            "UpdateVersion": {
                "Model": "string",
                "PackageVersion": "string",
                "Station": "string"
            }
        },
        "UpdateDataRole": "string",
        "UpdateDataSource": "string"
    }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AutoCreateTasks (p. 54)

Whether to automatically create tasks using this task definition for all gateways with the specified current version. If false, the task must me created by calling CreateWirelessGatewayTask.

Type: Boolean

Required: Yes

[ClientRequestToken \(p. 54\)](#)

Each resource must have a unique client request token. If you try to create a new resource with the same token as a resource that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

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

Pattern: ^[a-zA-Z0-9-_]+\$

Required: No

[Name \(p. 54\)](#)

The name of the new resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

[Tags \(p. 54\)](#)

The tags to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

[Update \(p. 54\)](#)

Information about the gateways to update.

Type: [UpdateWirelessGatewayTaskCreate \(p. 347\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
    "Arn": "string",
    "Id": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

[Arn \(p. 55\)](#)

The Amazon Resource Name of the resource.

Type: String

Id (p. 55)

The ID of the new wireless gateway task definition.

Type: String

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

DeleteDestination

Deletes a destination.

Request Syntax

```
DELETE /destinations/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 58)

The name of the resource to delete.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteDeviceProfile

Deletes a device profile.

Request Syntax

```
DELETE /device-profiles/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 60)

The ID of the resource to delete.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteFuotaTask

Deletes a FUOTA task.

Request Syntax

```
DELETE /fuota-tasks/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 62)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteMulticastGroup

Deletes a multicast group if it is not in use by a fuota task.

Request Syntax

```
DELETE /multicast-groups/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 64)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteNetworkAnalyzerConfiguration

Deletes a network analyzer configuration.

Request Syntax

```
DELETE /network-analyzer-configurations/ConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConfigurationName (p. 66)

Name of the network analyzer configuration.

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

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteQueuedMessages

Remove queued messages from the downlink queue.

Request Syntax

```
DELETE /wireless-devices/Id/data?messageId=MessageId&WirelessDeviceType=WirelessDeviceType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 68)

The ID of a given wireless device for which downlink messages will be deleted.

Length Constraints: Maximum length of 256.

Required: Yes

MessageId (p. 68)

If message ID is "*", it clears the entire downlink queue for a given device, specified by the wireless device ID. Otherwise, the downlink message with the specified message ID will be deleted.

Required: Yes

WirelessDeviceType (p. 68)

The wireless device type, which can be either Sidewalk or LoRaWAN.

Valid Values: Sidewalk | LoRaWAN

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteServiceProfile

Deletes a service profile.

Request Syntax

```
DELETE /service-profiles/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 70)

The ID of the resource to delete.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWirelessDevice

Deletes a wireless device.

Request Syntax

```
DELETE /wireless-devices/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 72)

The ID of the resource to delete.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWirelessGateway

Deletes a wireless gateway.

Request Syntax

```
DELETE /wireless-gateways/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 74)

The ID of the resource to delete.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWirelessGatewayTask

Deletes a wireless gateway task.

Request Syntax

```
DELETE /wireless-gateways/Id/tasks HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 76)

The ID of the resource to delete.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWirelessGatewayTaskDefinition

Deletes a wireless gateway task definition. Deleting this task definition does not affect tasks that are currently in progress.

Request Syntax

```
DELETE /wireless-gateway-task-definitions/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 78)

The ID of the resource to delete.

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateAwsAccountFromPartnerAccount

Disassociates your AWS account from a partner account. If `PartnerAccountId` and `PartnerType` are null, disassociates your AWS account from all partner accounts.

Request Syntax

```
DELETE /partner-accounts/PartnerAccountId?partnerType=PartnerType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

PartnerAccountId (p. 80)

The partner account ID to disassociate from the AWS account.

Length Constraints: Maximum length of 256.

Required: Yes

PartnerType (p. 80)

The partner type.

Valid Values: Sidewalk

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateMulticastGroupFromFuotaTask

Disassociates a multicast group from a fuota task.

Request Syntax

```
DELETE /fuota-tasks/Id/multicast-groups/MulticastGroupId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 82)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

MulticastGroupId (p. 82)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateWirelessDeviceFromFuotaTask

Disassociates a wireless device from a FUOTA task.

Request Syntax

```
DELETE /fuota-tasks/Id/wireless-devices/WirelessDeviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 84)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

WirelessDeviceId (p. 84)

The ID of the wireless device.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateWirelessDeviceFromMulticastGroup

Disassociates a wireless device from a multicast group.

Request Syntax

```
DELETE /multicast-groups/Id/wireless-devices/WirelessDeviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 86)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

WirelessDeviceId (p. 86)

The ID of the wireless device.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateWirelessDeviceFromThing

Disassociates a wireless device from its currently associated thing.

Request Syntax

```
DELETE /wireless-devices/Id/thing HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 88)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateWirelessGatewayFromCertificate

Disassociates a wireless gateway from its currently associated certificate.

Request Syntax

```
DELETE /wireless-gateways/Id/certificate HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 90)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DisassociateWirelessGatewayFromThing

Disassociates a wireless gateway from its currently associated thing.

Request Syntax

```
DELETE /wireless-gateways/Id/thing HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 92)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDestination

Gets information about a destination.

Request Syntax

```
GET /destinations/Name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 94)

The name of the resource to get.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Description": "string",
    "Expression": "string",
    "ExpressionType": "string",
    "Name": "string",
    "RoleArn": "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.

Arn (p. 94)

The Amazon Resource Name of the resource.

Type: String

Description (p. 94)

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Expression (p. 94)

The rule name or topic rule to send messages to.

Type: String

Length Constraints: Maximum length of 2048.

ExpressionType (p. 94)

The type of value in Expression.

Type: String

Valid Values: RuleName | MqttTopic

Name (p. 94)

The name of the resource.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

RoleArn (p. 94)

The ARN of the IAM Role that authorizes the destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetDeviceProfile

Gets information about a device profile.

Request Syntax

```
GET /device-profiles/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 97)

The ID of the resource to get.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Id": "string",
    "LoRaWAN": {
        "ClassBTimeout": number,
        "ClassCTimeout": number,
        "FactoryPresetFreqsList": [ number ],
        "MacVersion": "string",
        "MaxDutyCycle": number,
        "MaxEirp": number,
        "PingSlotDr": number,
        "PingSlotFreq": number,
        "PingSlotPeriod": number,
        "RegParamsRevision": "string",
        "RfRegion": "string",
        "RxDataRate2": number,
        "RxDelay1": number,
        "RxDelay2": number,
        "RxOffset1": number,
        "RxOffset2": number,
        "Supports32BitFCnt": boolean,
        "SupportsClassB": boolean,
        "SupportsClassC": boolean,
        "SupportsJoin": boolean
    },
    "Name": "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.

[Arn \(p. 97\)](#)

The Amazon Resource Name of the resource.

Type: String

[Id \(p. 97\)](#)

The ID of the device profile.

Type: String

Length Constraints: Maximum length of 256.

[LoRaWAN \(p. 97\)](#)

Information about the device profile.

Type: [LoRaWANDeviceProfile \(p. 286\)](#) object

[Name \(p. 97\)](#)

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetEventConfigurationByResourceTypes

Get the event configuration based on resource types.

Request Syntax

```
GET /event-configurations-resource-types HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ConnectionStatus": {
    "LoRaWAN": {
      "WirelessGatewayEventTopic": "string"
    }
  },
  "DeviceRegistrationState": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "Join": {
    "LoRaWAN": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "MessageDeliveryStatus": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "Proximity": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "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.

[ConnectionStatus \(p. 100\)](#)

Resource type event configuration for the connection status event.

Type: [ConnectionStatusResourceTypeEventConfiguration \(p. 266\)](#) object

[DeviceRegistrationState \(p. 100\)](#)

Resource type event configuration for the device registration state event.

Type: [DeviceRegistrationStateResourceTypeEventConfiguration \(p. 271\)](#) object

[Join \(p. 100\)](#)

Resource type event configuration for the join event.

Type: [JoinResourceTypeEventConfiguration \(p. 279\)](#) object

[MessageDeliveryStatus \(p. 100\)](#)

Resource type event configuration object for the message delivery status event.

Type: [MessageDeliveryStatusResourceTypeEventConfiguration \(p. 314\)](#) object

[Proximity \(p. 100\)](#)

Resource type event configuration for the proximity event.

Type: [ProximityResourceTypeEventConfiguration \(p. 327\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

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](#)

GetFuotaTask

Gets information about a FUOTA task.

Request Syntax

```
GET /fuota-tasks/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 103)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "CreatedAt": number,
    "Description": "string",
    "FirmwareUpdateImage": "string",
    "FirmwareUpdateRole": "string",
    "Id": "string",
    "LoRaWAN": {
        "RfRegion": "string",
        "StartTime": number
    },
    "Name": "string",
    "Status": "string"
}
```

Response Elements

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

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

Arn (p. 103)

The arn of a FUOTA task.

Type: String

Length Constraints: Maximum length of 128.

[CreatedAt \(p. 103\)](#)

Created at timestamp for the resource.

Type: Timestamp

[Description \(p. 103\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

[FirmwareUpdateImage \(p. 103\)](#)

The S3 URI points to a firmware update image that is to be used with a FUOTA task.

Type: String

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

[FirmwareUpdateRole \(p. 103\)](#)

The firmware update role that is to be used with a FUOTA task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

[Id \(p. 103\)](#)

The ID of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

[LoRaWAN \(p. 103\)](#)

The LoRaWAN information returned from getting a FUOTA task.

Type: [LoRaWANFuotaTaskGetInfo \(p. 291\)](#) object

[Name \(p. 103\)](#)

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

[Status \(p. 103\)](#)

The status of a FUOTA task.

Type: String

Valid Values: Pending | FuotaSession_Waiting | In_FuotaSession | FuotaDone | Delete_Waiting

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetLogLevelsByResourceTypes

Returns current default log levels or log levels by resource types. Based on resource types, log levels can be for wireless device log options or wireless gateway log options.

Request Syntax

```
GET /log-levels HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DefaultLogLevel": "string",
  "WirelessDeviceLogOptions": [
    {
      "Events": [
        {
          "Event": "string",
          "LogLevel": "string"
        }
      ],
      "LogLevel": "string",
      "Type": "string"
    }
  ],
  "WirelessGatewayLogOptions": [
    {
      "Events": [
        {
          "Event": "string",
          "LogLevel": "string"
        }
      ],
      "LogLevel": "string",
      "Type": "string"
    }
  ]
}
```

Response Elements

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

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

[DefaultLogLevel \(p. 106\)](#)

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

[WirelessDeviceLogOptions \(p. 106\)](#)

The list of wireless device log options.

Type: Array of [WirelessDeviceLogOption \(p. 350\)](#) objects

[WirelessGatewayLogOptions \(p. 106\)](#)

The list of wireless gateway log options.

Type: Array of [WirelessGatewayLogOption \(p. 354\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

GetMulticastGroup

Gets information about a multicast group.

Request Syntax

```
GET /multicast-groups/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 109)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "CreatedAt": number,
    "Description": "string",
    "Id": "string",
    "LoRaWAN": {
        "DlClass": "string",
        "NumberOfDevicesInGroup": number,
        "NumberOfDevicesRequested": number,
        "RfRegion": "string"
    },
    "Name": "string",
    "Status": "string"
}
```

Response Elements

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

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

Arn (p. 109)

The arn of the multicast group.

Type: String

Length Constraints: Maximum length of 128.

CreatedAt (p. 109)

Created at timestamp for the resource.

Type: Timestamp

Description (p. 109)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Id (p. 109)

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

LoRaWAN (p. 109)

The LoRaWAN information that is to be returned from getting multicast group information.

Type: [LoRaWANMulticastGet \(p. 304\)](#) object

Name (p. 109)

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Status (p. 109)

The status of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMulticastGroupSession

Gets information about a multicast group session.

Request Syntax

```
GET /multicast-groups/Id/session HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 112)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "LoRaWAN": {
    "D1Dr": number,
    "D1Freq": number,
    "SessionStartTime": number,
    "SessionTimeout": 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.

LoRaWAN (p. 112)

The LoRaWAN information used with the multicast session.

Type: [LoRaWANMulticastSession](#) (p. 306) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 360).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetNetworkAnalyzerConfiguration

Get network analyzer configuration.

Request Syntax

```
GET /network-analyzer-configurations/ConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ConfigurationName (p. 114)

Name of the network analyzer configuration.

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

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Description": "string",
    "Name": "string",
    "TraceContent": {
        "LogLevel": "string",
        "WirelessDeviceFrameInfo": "string"
    },
    "WirelessDevices": [ "string" ],
    "WirelessGateways": [ "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.

Arn (p. 114)

The Amazon Resource Name of the new resource.

Type: String

Length Constraints: Maximum length of 1124.

[Description \(p. 114\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

[Name \(p. 114\)](#)

Name of the network analyzer configuration.

Type: String

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

Pattern: [a-zA-Z0-9-_]+

[TraceContent \(p. 114\)](#)

Trace content for your wireless gateway and wireless device resources.

Type: [TraceContent \(p. 343\)](#) object

[WirelessDevices \(p. 114\)](#)

List of wireless gateway resources that have been added to the network analyzer configuration.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Maximum length of 256.

[WirelessGateways \(p. 114\)](#)

List of wireless gateway resources that have been added to the network analyzer configuration.

Type: Array of strings

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPartnerAccount

Gets information about a partner account. If `PartnerAccountId` and `PartnerType` are null, returns all partner accounts.

Request Syntax

```
GET /partner-accounts/PartnerAccountId?partnerType=PartnerType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

`PartnerAccountId` (p. 117)

The partner account ID to disassociate from the AWS account.

Length Constraints: Maximum length of 256.

Required: Yes

`PartnerType` (p. 117)

The partner type.

Valid Values: Sidewalk

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "AccountLinked": boolean,
  "Sidewalk": {
    "AmazonId": "string",
    "Arn": "string",
    "Fingerprint": "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.

[AccountLinked \(p. 117\)](#)

Whether the partner account is linked to the AWS account.

Type: Boolean

[Sidewalk \(p. 117\)](#)

The Sidewalk account credentials.

Type: [SidewalkAccountInfoWithFingerprint \(p. 334\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPosition

Get the position information for a given resource.

Request Syntax

```
GET /positions/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 119)

Resource identifier used to retrieve the position information.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

ResourceType (p. 119)

Resource type of the resource for which position information is retrieved.

Valid Values: `WirelessDevice` | `WirelessGateway`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Accuracy": {
        "HorizontalAccuracy": number,
        "VerticalAccuracy": number
    },
    "Position": [ number ],
    "SolverProvider": "string",
    "SolverType": "string",
    "SolverVersion": "string",
    "Timestamp": "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.

[Accuracy \(p. 119\)](#)

The accuracy of the estimated position in meters. An empty value indicates that no position data is available. A value of '0.0' value indicates that position data is available. This data corresponds to the position information that you specified instead of the position computed by solver.

Type: [Accuracy \(p. 262\)](#) object

[Position \(p. 119\)](#)

The position information of the resource.

Type: Array of floats

[SolverProvider \(p. 119\)](#)

The vendor of the positioning solver.

Type: String

Valid Values: Semtech

[SolverType \(p. 119\)](#)

The type of solver used to identify the position of the resource.

Type: String

Valid Values: GNSS

[SolverVersion \(p. 119\)](#)

The version of the positioning solver.

Type: String

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

[Timestamp \(p. 119\)](#)

The timestamp at which the device's position was determined.

Type: String

Pattern: ^([\+\-]?\\d{4}(?!\\d{2}\\b))((-?)(\\0[1-9]|1[0-2])(\\3([12]\\d|0[1-9]|3[01]))?|W([0-4]\\d|5[0-2])(-[1-7])?|(00[1-9]|0[1-9]\\d|[12]\\d{2}|3([0-5]\\d6[1-6])))([T\\s](([01]\\d|2[0-3])((:?)\\d)?|24:\\?00)([\\.,]\\d+(?!:))?)?(\\17[0-5]\\d([\\.,]\\d+)?)([zz]|([\\+\-])([01]\\d|2[0-3]):?([0-5]\\d)?))?)?\$/

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPositionConfiguration

Get position configuration for a given resource.

Request Syntax

```
GET /position-configurations/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 122)

Resource identifier used in a position configuration.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

ResourceType (p. 122)

Resource type of the resource for which position configuration is retrieved.

Valid Values: `WirelessDevice` | `WirelessGateway`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Destination": "string",
  "Solvers": {
    "SemtechGnss": {
      "Fec": "string",
      "Provider": "string",
      "Status": "string",
      "Type": "string"
    }
  }
}
```

Response Elements

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

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

[Destination \(p. 122\)](#)

The position data destination that describes the AWS IoT rule that processes the device's position data for use by AWS IoT Core for LoRaWAN.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

[Solvers \(p. 122\)](#)

The wrapper for the solver configuration details object.

Type: [PositionSolverDetails \(p. 325\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

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

GetResourceEventConfiguration

Get the event configuration for a particular resource identifier.

Request Syntax

```
GET /event-configurations/Identifier?identifierType=IdentifierType&partnerType=PartnerType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 125)

Resource identifier to opt in for event messaging.

Length Constraints: Maximum length of 256.

Required: Yes

IdentifierType (p. 125)

Identifier type of the particular resource identifier for event configuration.

Valid Values: PartnerAccountId | DevEui | GatewayEui | WirelessDeviceId | WirelessGatewayId

Required: Yes

PartnerType (p. 125)

Partner type of the resource if the identifier type is PartnerAccountId.

Valid Values: Sidewalk

Request Body

The request does not have a request body.

Response Syntax

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

{
    "ConnectionStatus": {
        "LoRaWAN": {
            "GatewayEuiEventTopic": "string"
        },
        "WirelessGatewayIdEventTopic": "string"
    },
    "DeviceRegistrationState": {
        "Sidewalk": {
            "AmazonIdEventTopic": "string"
        }
    }
}
```

```
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "Join": {
        "LoRaWAN": {
            "DevEuiEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "MessageDeliveryStatus": {
        "Sidewalk": {
            "AmazonIdEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "Proximity": {
        "Sidewalk": {
            "AmazonIdEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "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.

[ConnectionStatus \(p. 125\)](#)

Event configuration for the connection status event.

Type: [ConnectionStatusEventConfiguration \(p. 265\)](#) object

[DeviceRegistrationState \(p. 125\)](#)

Event configuration for the device registration state event.

Type: [DeviceRegistrationStateEventConfiguration \(p. 270\)](#) object

[Join \(p. 125\)](#)

Event configuration for the join event.

Type: [JoinEventConfiguration \(p. 278\)](#) object

[MessageDeliveryStatus \(p. 125\)](#)

Event configuration for the message delivery status event.

Type: [MessageDeliveryStatusEventConfiguration \(p. 313\)](#) object

[Proximity \(p. 125\)](#)

Event configuration for the proximity event.

Type: [ProximityEventConfiguration \(p. 326\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResourceLogLevel

Fetches the log-level override, if any, for a given resource-ID and resource-type. It can be used for a wireless device or a wireless gateway.

Request Syntax

```
GET /log-levels/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 128)

The identifier of the resource. For a Wireless Device, it is the wireless device ID. For a wireless gateway, it is the wireless gateway ID.

Length Constraints: Maximum length of 256.

Required: Yes

ResourceType (p. 128)

The type of the resource, which can be `WirelessDevice` or `WirelessGateway`.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "LogLevel": "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.

LogLevel (p. 128)

The log level for a log message. The log levels can be disabled, or set to `ERROR` to display less verbose logs containing only error information, or to `INFO` for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetServiceEndpoint

Gets the account-specific endpoint for Configuration and Update Server (CUPS) protocol or LoRaWAN Network Server (LNS) connections.

Request Syntax

```
GET /service-endpoint?serviceType=ServiceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ServiceType (p. 130)

The service type for which to get endpoint information about. Can be CUPS for the Configuration and Update Server endpoint, or LNS for the LoRaWAN Network Server endpoint or CLAIM for the global endpoint.

Valid Values: CUPS | LNS

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ServerTrust": "string",
  "ServiceEndpoint": "string",
  "ServiceType": "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.

ServerTrust (p. 130)

The Root CA of the server trust certificate.

Type: String

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

Pattern: [^-A-Za-z0-9+/=] |=[^=]|={3,} \${1,4096}

ServiceEndpoint (p. 130)

The service endpoint value.

Type: String

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

[ServiceType \(p. 130\)](#)

The endpoint's service type.

Type: String

Valid Values: CUPS | LNS

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetServiceProfile

Gets information about a service profile.

Request Syntax

```
GET /service-profiles/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 132)

The ID of the resource to get.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Id": "string",
    "LoRaWAN": {
        "AddGwMetadata": boolean,
        "ChannelMask": "string",
        "DevStatusReqFreq": number,
        "DlBucketSize": number,
        "DlRate": number,
        "DlRatePolicy": "string",
        "DrMax": number,
        "DrMin": number,
        "HrAllowed": boolean,
        "MinGwDiversity": number,
        "NwkGeoLoc": boolean,
        "PrAllowed": boolean,
        "RaAllowed": boolean,
        "ReportDevStatusBattery": boolean,
        "ReportDevStatusMargin": boolean,
        "TargetPer": number,
        "UlBucketSize": number,
        "UlRate": number,
        "UlRatePolicy": "string"
    },
    "Name": "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.

Arn (p. 132)

The Amazon Resource Name of the resource.

Type: String

Id (p. 132)

The ID of the service profile.

Type: String

Length Constraints: Maximum length of 256.

LoRaWAN (p. 132)

Information about the service profile.

Type: [LoRaWANGetServiceProfileInfo \(p. 297\)](#) object

Name (p. 132)

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessDevice

Gets information about a wireless device.

Request Syntax

```
GET /wireless-devices/Identifier?identifierType=IdentifierType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 135)

The identifier of the wireless device to get.

Length Constraints: Maximum length of 256.

Required: Yes

IdentifierType (p. 135)

The type of identifier used in identifier.

Valid Values: WirelessDeviceId | DevEui | ThingName | SidewalkManufacturingSn

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Description": "string",
    "DestinationName": "string",
    "Id": "string",
    "LoRaWAN": {
        "AbpV1_0_x": {
            "DevAddr": "string",
            "FCntStart": number,
            "SessionKeys": {
                "AppSKey": "string",
                "NwkSKey": "string"
            }
        },
        "AbpV1_1": {
            "DevAddr": "string",
            "FCntStart": number,
            "SessionKeys": {
                "AppSKey": "string",
                "FNwkSIntKey": "string",
                "NwkSKey": "string"
            }
        }
    }
}
```

```
        "NwkSEncKey": "string",
        "SNwkSIntKey": "string"
    }
},
"DevEui": "string",
"DeviceProfileId": "string",
"FPorts": {
    "ClockSync": number,
    "Fuota": number,
    "Multicast": number,
    "Positioning": {
        "ClockSync": number,
        "Gnss": number,
        "Stream": number
    }
},
"OtaaV1_0_x": {
    "AppEui": "string",
    "AppKey": "string",
    "GenAppKey": "string"
},
"OtaaV1_1": {
    "AppKey": "string",
    "JoinEui": "string",
    "NwkKey": "string"
},
"ServiceProfileId": "string"
},
"Name": "string",
"Sidewalk": {
    "AmazonId": "string",
    "DeviceCertificates": [
        {
            "SigningAlg": "string",
            "Value": "string"
        }
    ],
    "SidewalkId": "string",
    "SidewalkManufacturingSn": "string"
},
"ThingArn": "string",
"ThingName": "string",
"Type": "string"
}
```

Response Elements

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

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

Arn (p. 135)

The Amazon Resource Name of the resource.

Type: String

Description (p. 135)

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

[DestinationName \(p. 135\)](#)

The name of the destination to which the device is assigned.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

[Id \(p. 135\)](#)

The ID of the wireless device.

Type: String

Length Constraints: Maximum length of 256.

[LoRaWAN \(p. 135\)](#)

Information about the wireless device.

Type: [LoRaWANDevice \(p. 282\)](#) object

[Name \(p. 135\)](#)

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

[Sidewalk \(p. 135\)](#)

Sidewalk device object.

Type: [SidewalkDevice \(p. 335\)](#) object

[ThingArn \(p. 135\)](#)

The ARN of the thing associated with the wireless device.

Type: String

[ThingName \(p. 135\)](#)

The name of the thing associated with the wireless device. The value is empty if a thing isn't associated with the device.

Type: String

[Type \(p. 135\)](#)

The wireless device type.

Type: String

Valid Values: Sidewalk | LoRaWAN

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessDeviceStatistics

Gets operating information about a wireless device.

Request Syntax

```
GET /wireless-devices/Id/statistics HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 139)

The ID of the wireless device for which to get the data.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "LastUplinkReceivedAt": "string",
    "LoRaWAN": {
        "DataRate": number,
        "DevEui": "string",
        "FPort": number,
        "Frequency": number,
        "Gateways": [
            {
                "GatewayEui": "string",
                "Rssi": number,
                "Snr": number
            }
        ],
        "Timestamp": "string"
    },
    "Sidewalk": {
        "BatteryLevel": "string",
        "DeviceState": "string",
        "Event": "string",
        "Rssi": number
    },
    "WirelessDeviceId": "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.

[LastUplinkReceivedAt \(p. 139\)](#)

The date and time when the most recent uplink was received.

Type: String

Pattern: ^([\+]?[\d{4}(?![\d{2}\b))(-?)([0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|W([0-4]\d|5[0-2])(-[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s](([01]\d|2[0-3])([:?][0-5]\d)?|24\:[?00)([\.,]\d+(?:\:))?)?(\17[0-5]\d([\.,]\d+)?)([zz]|([\+])([01]\d|2[0-3]):?([0-5]\d)?))?)?|\$

[LoRaWAN \(p. 139\)](#)

Information about the wireless device's operations.

Type: [LoRaWANDeviceMetadata \(p. 284\)](#) object

[Sidewalk \(p. 139\)](#)

MetaData for Sidewalk device.

Type: [SidewalkDeviceMetadata \(p. 336\)](#) object

[WirelessDeviceId \(p. 139\)](#)

The ID of the wireless device.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessGateway

Gets information about a wireless gateway.

Request Syntax

```
GET /wireless-gateways/Identifier?identifierType=IdentifierType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 142)

The identifier of the wireless gateway to get.

Length Constraints: Maximum length of 256.

Required: Yes

IdentifierType (p. 142)

The type of identifier used in identifier.

Valid Values: GatewayEui | WirelessGatewayId | ThingName

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Arn": "string",
    "Description": "string",
    "Id": "string",
    "LoRaWAN": {
        "Beaconing": {
            "DataRate": number,
            "Frequencies": [ number ]
        },
        "GatewayEui": "string",
        "JoinEuiFilters": [
            [ "string" ]
        ],
        "NetIdFilters": [ "string" ],
        "RfRegion": "string",
        "SubBands": [ number ]
    },
    "Name": "string",
    "ThingArn": "string",
    "ThingName": "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.

[Arn \(p. 142\)](#)

The Amazon Resource Name of the resource.

Type: String

[Description \(p. 142\)](#)

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

[Id \(p. 142\)](#)

The ID of the wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

[LoRaWAN \(p. 142\)](#)

Information about the wireless gateway.

Type: [LoRaWANGateway \(p. 292\)](#) object

[Name \(p. 142\)](#)

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

[ThingArn \(p. 142\)](#)

The ARN of the thing associated with the wireless gateway.

Type: String

[ThingName \(p. 142\)](#)

The name of the thing associated with the wireless gateway. The value is empty if a thing isn't associated with the gateway.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessGatewayCertificate

Gets the ID of the certificate that is currently associated with a wireless gateway.

Request Syntax

```
GET /wireless-gateways/Id/certificate HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 145)

The ID of the resource to get.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "IoTCertificateId": "string",
    "LoRaWANNetworkServerCertificateId": "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.

IoTCertificateId (p. 145)

The ID of the certificate associated with the wireless gateway.

Type: String

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

LoRaWANNetworkServerCertificateId (p. 145)

The ID of the certificate that is associated with the wireless gateway and used for the LoRaWANNetworkServer endpoint.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessGatewayFirmwareInformation

Gets the firmware version and other information about a wireless gateway.

Request Syntax

```
GET /wireless-gateways/Id/firmware-information HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 147\)](#)

The ID of the resource to get.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "LoRaWAN": {
    "CurrentVersion": {
      "Model": "string",
      "PackageVersion": "string",
      "Station": "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.

[LoRaWAN \(p. 147\)](#)

Information about the wireless gateway's firmware.

Type: [LoRaWANGatewayCurrentVersion \(p. 294\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessGatewayStatistics

Gets operating information about a wireless gateway.

Request Syntax

```
GET /wireless-gateways/Id/statistics HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 149)

The ID of the wireless gateway for which to get the data.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "ConnectionStatus": "string",
    "LastUplinkReceivedAt": "string",
    "WirelessGatewayId": "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.

ConnectionStatus (p. 149)

The connection status of the wireless gateway.

Type: String

Valid Values: Connected | Disconnected

LastUplinkReceivedAt (p. 149)

The date and time when the most recent uplink was received.

Type: String

Pattern: ^([\+\-]?\d{4}(?!d{2}\b))(-?)(\d{1}[1-9]\d{1}[0-2])(\d{3}([12]\d|\d{1}[0-9])|3[01]))?|W([0-4]\d|5[0-2])(-[1-7])?|(00[1-9]\d|[12]\d{2}|3[0-5]\d|6[1-6]))([T\s](([01]\d|2[0-3])(:[?]\d{1-5})?|24\::?00)([\.,]\d+(?:!:)?)?|(\d{17}[0-5]\d([\.,]\d+)?)?|([zz]|([\+\-])([01]\d|2[0-3]):?|([0-5]\d)?)))?|\$

[WirelessGatewayId \(p. 149\)](#)

The ID of the wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

GetWirelessGatewayTask

Gets information about a wireless gateway task.

Request Syntax

```
GET /wireless-gateways/Id/tasks HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 152)

The ID of the resource to get.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "LastUplinkReceivedAt": "string",
    "Status": "string",
    "TaskCreatedAt": "string",
    "WirelessGatewayId": "string",
    "WirelessGatewayTaskDefinitionId": "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.

LastUplinkReceivedAt (p. 152)

The date and time when the most recent uplink was received.

Type: String

Pattern: ^([\+\-]?\d{4}(?! \d{2}\b))((-?)(\d{1}[1-9]|1[0-2])(\d{1}[1-9]|3[01]))?|W(\d{1}[0-4]\d|\d{1}[5-9])((-?)(\d{1}[1-7])?|(\d{1}[0-9]\d|\d{1}[1-9]\d|\d{1}[1-9]\d{2})|3(\d{1}[0-5]\d|\d{1}[1-6]))|([T\z)(([[01]\d|\d{1}[2-3])((::)\d{1}[0-5]\d)?|\d{1}[24]:\d{2}00)([\.,]\d+(?:\d{1}:))?)?|(\d{1}[17]\d{1}[0-5]\d)([\.,]\d+)?|([zz]|([+\-])([01]\d|\d{1}[2-3]):?|(\d{1}[0-5]\d)?))?)?)?|\$

[Status \(p. 152\)](#)

The status of the request.

Type: String

Valid Values: PENDING | IN_PROGRESS | FIRST_RETRY | SECOND_RETRY | COMPLETED | FAILED

[TaskCreatedAt \(p. 152\)](#)

The date and time when the task was created.

Type: String

Pattern: ^([\+\-]?d{4}(?!d{2}\b))((-?)((0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|W([0-4]\d|5[0-2])(-?[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s](([01]\d|2[0-3])((?:)[0-5]\d)?|24\:[?00)([\.,]\d+(?:\:))?)?(\17[0-5]\d([\.\,]\d+)?)?([zz]|([\+\-])([01]\d|2[0-3]):?([0-5]\d)?))?)?\$\$

[WirelessGatewayId \(p. 152\)](#)

The ID of the wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

[WirelessGatewayTaskDefinitionId \(p. 152\)](#)

The ID of the WirelessGatewayTask.

Type: String

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWirelessGatewayTaskDefinition

Gets information about a wireless gateway task definition.

Request Syntax

```
GET /wireless-gateway-task-definitions/Id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 155)

The ID of the resource to get.

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-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

{
    "Arn": "string",
    "AutoCreateTasks": boolean,
    "Name": "string",
    "Update": {
        "LoRaWAN": {
            "CurrentVersion": {
                "Model": "string",
                "PackageVersion": "string",
                "Station": "string"
            },
            "SigKeyCrc": number,
            "UpdateSignature": "string",
            "UpdateVersion": {
                "Model": "string",
                "PackageVersion": "string",
                "Station": "string"
            }
        },
        "UpdateDataRole": "string",
        "UpdateDataSource": "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.

Arn (p. 155)

The Amazon Resource Name of the resource.

Type: String

AutoCreateTasks (p. 155)

Whether to automatically create tasks using this task definition for all gateways with the specified current version. If false, the task must be created by calling CreateWirelessGatewayTask.

Type: Boolean

Name (p. 155)

The name of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Update (p. 155)

Information about the gateways to update.

Type: [UpdateWirelessGatewayTaskCreate \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDestinations

Lists the destinations registered to your AWS account.

Request Syntax

```
GET /destinations?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 158\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 158\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DestinationList": [
    {
      "Arn": "string",
      "Description": "string",
      "Expression": "string",
      "ExpressionType": "string",
      "Name": "string",
      "RoleArn": "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.

[DestinationList \(p. 158\)](#)

The list of destinations.

Type: Array of [Destinations \(p. 267\)](#) objects

[NextToken \(p. 158\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDeviceProfiles

Lists the device profiles registered to your AWS account.

Request Syntax

```
GET /device-profiles?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 160\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 160\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DeviceProfileList": [
    {
      "Arn": "string",
      "Id": "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.

[DeviceProfileList \(p. 160\)](#)

The list of device profiles.

Type: Array of [DeviceProfile \(p. 269\)](#) objects

NextToken (p. 160)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListEventConfigurations

List event configurations where at least one event topic has been enabled.

Request Syntax

```
GET /event-configurations?  
maxResults=MaxResults&nextToken=NextToken&resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 162\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 162\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

[ResourceType \(p. 162\)](#)

Resource type to filter event configurations.

Valid Values: SidewalkAccount | WirelessDevice | WirelessGateway

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "EventConfigurationsList": [  
        {  
            "Events": {  
                "ConnectionStatus": {  
                    "LoRaWAN": {  
                        "GatewayEuiEventTopic": "string"  
                    },  
                    "WirelessGatewayIdEventTopic": "string"  
                },  
                "DeviceRegistrationState": {  
                    "Sidewalk": {  
                        "AmazonIdEventTopic": "string"  
                    }  
                }  
            }  
        }  
    ]  
}
```

```
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "Join": {
        "LoRaWAN": {
            "DevEuiEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "MessageDeliveryStatus": {
        "Sidewalk": {
            "AmazonIdEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "string"
    },
    "Proximity": {
        "Sidewalk": {
            "AmazonIdEventTopic": "string"
        },
        "WirelessDeviceIdEventTopic": "string"
    }
},
"Identifier": "string",
"IdentifierType": "string",
"PartnerType": "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.

[EventConfigurationsList \(p. 162\)](#)

Event configurations of all events for a single resource.

Type: Array of [EventConfigurationItem \(p. 273\)](#) objects

[NextToken \(p. 162\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListFuotaTasks

Lists the FUOTA tasks registered to your AWS account.

Request Syntax

```
GET /fuota-tasks?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 165\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 165\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "FuotaTaskList": [
    {
      "Arn": "string",
      "Id": "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.

[FuotaTaskList \(p. 165\)](#)

Lists the FUOTA tasks registered to your AWS account.

Type: Array of [FuotaTask \(p. 276\)](#) objects

NextToken (p. 165)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMulticastGroups

Lists the multicast groups registered to your AWS account.

Request Syntax

```
GET /multicast-groups?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 167\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 167\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "MulticastGroupList": [
    {
      "Arn": "string",
      "Id": "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.

[MulticastGroupList \(p. 167\)](#)

List of multicast groups.

Type: Array of [MulticastGroup \(p. 315\)](#) objects

NextToken (p. 167)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListMulticastGroupsByFuotaTask

List all multicast groups associated with a fuota task.

Request Syntax

```
GET /fuota-tasks/Id/multicast-groups?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 169\)](#)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

[MaxResults \(p. 169\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 169\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "MulticastGroupList": [
    {
      "Id": "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.

[MulticastGroupList \(p. 169\)](#)

List of multicast groups associated with a FUOTA task.

Type: Array of [MulticastGroupByFuotaTask \(p. 316\)](#) objects

[NextToken \(p. 169\)](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

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

ListNetworkAnalyzerConfigurations

Lists the network analyzer configurations.

Request Syntax

```
GET /network-analyzer-configurations?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 172)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

NextToken (p. 172)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NetworkAnalyzerConfigurationList": [
    {
      "Arn": "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.

NetworkAnalyzerConfigurationList (p. 172)

The list of network analyzer configurations.

Type: Array of [NetworkAnalyzerConfigurations](#) (p. 318) objects

[NextToken \(p. 172\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPartnerAccounts

Lists the partner accounts associated with your AWS account.

Request Syntax

```
GET /partner-accounts?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 174)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

NextToken (p. 174)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "Sidewalk": [
        {
            "AmazonId": "string",
            "Arn": "string",
            "Fingerprint": "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. 174)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

[Sidewalk \(p. 174\)](#)

The Sidewalk account credentials.

Type: Array of [SidewalkAccountInfoWithFingerprint \(p. 334\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPositionConfigurations

List position configurations for a given resource, such as positioning solvers.

Request Syntax

```
GET /position-configurations?  
maxResults=MaxResults&nextToken=NextToken&resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 176\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 176\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

[ResourceType \(p. 176\)](#)

Resource type for which position configurations are listed.

Valid Values: `WirelessDevice` | `WirelessGateway`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "NextToken": "string",  
    "PositionConfigurationList": [  
        {  
            "Destination": "string",  
            "ResourceIdentifier": "string",  
            "ResourceType": "string",  
            "Solvers": {  
                "SemtechGnss": {  
                    "Fec": "string",  
                    "Provider": "string",  
                    "Status": "string",  
                    "Type": "string"  
                }  
            }  
        }  
    ]  
}
```

```
    ]  
}
```

Response Elements

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

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

[NextToken \(p. 176\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

[PositionConfigurationList \(p. 176\)](#)

A list of position configurations.

Type: Array of [PositionConfigurationItem \(p. 322\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

ListQueuedMessages

List queued messages in the downlink queue.

Request Syntax

```
GET /wireless-devices/Id/data?  
maxResults=MaxResults&nextToken=NextToken&WirelessDeviceType=WirelessDeviceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 179\)](#)

The ID of a given wireless device which the downlink message packets are being sent.

Length Constraints: Maximum length of 256.

Required: Yes

[MaxResults \(p. 179\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 179\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

[WirelessDeviceType \(p. 179\)](#)

The wireless device type, whic can be either Sidewalk or LoRaWAN.

Valid Values: Sidewalk | LoRaWAN

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "DownlinkQueueMessagesList": [  
        {  
            "LoRaWAN": {  
                "FPort": number,  
                "ParticipatingGateways": {  
                    "DownlinkMode": "string",  
                    "GatewayList": [  
                        {  
                            "GatewayID": "string",  
                            "LastSeen": "string"  
                        }  
                    ]  
                }  
            }  
        }  
    ]  
}
```

```
{  
    "DownlinkFrequency": number,  
    "GatewayId": "string"  
}  
,  
    "TransmissionInterval": number  
}  
,  
    "MessageId": "string",  
    "ReceivedAt": "string",  
    "TransmitMode": number  
}  
,  
    "NextToken": "string"  
}
```

Response Elements

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

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

[DownlinkQueueMessagesList \(p. 179\)](#)

The messages in the downlink queue.

Type: Array of [DownlinkQueueMessage \(p. 272\)](#) objects

[NextToken \(p. 179\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Type: String

Length Constraints: Maximum length of 4096.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListServiceProfiles

Lists the service profiles registered to your AWS account.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 182\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 182\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "ServiceProfileList": [
        {
            "Arn": "string",
            "Id": "string",
            "Name": "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 \(p. 182\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

ServiceProfileList (p. 182)

The list of service profiles.

Type: Array of [ServiceProfile \(p. 330\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Lists the tags (metadata) you have assigned to the resource.

Request Syntax

```
GET /tags?resourceArn=ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ResourceArn \(p. 184\)](#)

The ARN of the resource for which you want to list tags.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

[Tags \(p. 184\)](#)

The tags to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWirelessDevices

Lists the wireless devices registered to your AWS account.

Request Syntax

```
GET /wireless-devices?  
destinationName=DestinationName&deviceProfileId=DeviceProfileId&fuotaTaskId=FuotaTaskId&maxResults=MaxResults  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DestinationName (p. 186)

A filter to list only the wireless devices that use this destination.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

DeviceProfileId (p. 186)

A filter to list only the wireless devices that use this device profile.

Length Constraints: Maximum length of 256.

FuotaTaskId (p. 186)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

MaxResults (p. 186)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

MulticastGroupId (p. 186)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

NextToken (p. 186)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Length Constraints: Maximum length of 4096.

ServiceProfileId (p. 186)

A filter to list only the wireless devices that use this service profile.

Length Constraints: Maximum length of 256.

WirelessDeviceType (p. 186)

A filter to list only the wireless devices that use this wireless device type.

Valid Values: Sidewalk | LoRaWAN

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "WirelessDeviceList": [
        {
            "Arn": "string",
            "DestinationName": "string",
            "FuotaDeviceStatus": "string",
            "Id": "string",
            "LastUplinkReceivedAt": "string",
            "LoRaWAN": {
                "DevEui": "string"
            },
            "McGroupId": number,
            "MulticastDeviceStatus": "string",
            "Name": "string",
            "Sidewalk": {
                "AmazonId": "string",
                "DeviceCertificates": [
                    {
                        "SigningAlg": "string",
                        "Value": "string"
                    }
                ],
                "SidewalkId": "string",
                "SidewalkManufacturingSn": "string"
            },
            "Type": "string"
        }
    ]
}
```

Response Elements

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

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

[NextToken \(p. 187\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

[WirelessDeviceList \(p. 187\)](#)

The ID of the wireless device.

Type: Array of [WirelessDeviceStatistics \(p. 351\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWirelessGateways

Lists the wireless gateways registered to your AWS account.

Request Syntax

```
GET /wireless-gateways?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 189\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 189\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

Request Body

The request does not have a request body.

Response Syntax

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

{
    "NextToken": "string",
    "WirelessGatewayList": [
        {
            "Arn": "string",
            "Description": "string",
            "Id": "string",
            "LastUplinkReceivedAt": "string",
            "LoRaWAN": {
                "Beaconing": {
                    "DataRate": number,
                    "Frequencies": [ number ]
                },
                "GatewayEui": "string",
                "JoinEuiFilters": [
                    [ "string" ]
                ],
                "NetIdFilters": [ "string" ],
                "RfRegion": "string",
                "SubBands": [ number ]
            },
            "Name": "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 \(p. 189\)](#)

The token to use to get the next set of results, or `null` if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

[WirelessGatewayList \(p. 189\)](#)

The ID of the wireless gateway.

Type: Array of [WirelessGatewayStatistics \(p. 355\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

ListWirelessGatewayTaskDefinitions

List the wireless gateway tasks definitions registered to your AWS account.

Request Syntax

```
GET /wireless-gateway-task-definitions?  
maxResults=MaxResults&nextToken=NextToken&taskDefinitionType=TaskDefinitionType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults \(p. 192\)](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

[NextToken \(p. 192\)](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise **null** to receive the first set of results.

Length Constraints: Maximum length of 4096.

[TaskDefinitionType \(p. 192\)](#)

A filter to list only the wireless gateway task definitions that use this task definition type.

Valid Values: UPDATE

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
    "NextToken": "string",  
    "TaskDefinitions": [  
        {  
            "Arn": "string",  
            "Id": "string",  
            "LoRaWAN": {  
                "CurrentVersion": {  
                    "Model": "string",  
                    "PackageVersion": "string",  
                    "Station": "string"  
                },  
                "UpdateVersion": {  
                    "Model": "string",  
                    "PackageVersion": "string",  
                    "Station": "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 \(p. 192\)](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Length Constraints: Maximum length of 4096.

[TaskDefinitions \(p. 192\)](#)

The list of task definitions.

Type: Array of [UpdateWirelessGatewayTaskEntry \(p. 348\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

PutPositionConfiguration

Put position configuration for a given resource.

Request Syntax

```
PUT /position-configurations/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
Content-type: application/json

{
  "Destination": "string",
  "Solvers": {
    "SemtechGnss": {
      "Fec": "string",
      "Status": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 195)

Resource identifier used to update the position configuration.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

ResourceType (p. 195)

Resource type of the resource for which you want to update the position configuration.

Valid Values: WirelessDevice | WirelessGateway

Required: Yes

Request Body

The request accepts the following data in JSON format.

Destination (p. 195)

The position data destination that describes the AWS IoT rule that processes the device's position data for use by AWS IoT Core for LoRaWAN.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: No

[Solvers \(p. 195\)](#)

The positioning solvers used to update the position configuration of the resource.

Type: [PositionSolverConfigurations \(p. 324\)](#) object

Required: No

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 \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

PutResourceLogLevel

Sets the log-level override for a resource-ID and resource-type. This option can be specified for a wireless gateway or a wireless device. A limit of 200 log level override can be set per account.

Request Syntax

```
PUT /log-levels/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
Content-type: application/json

{
    "LogLevel": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 198)

The identifier of the resource. For a Wireless Device, it is the wireless device ID. For a wireless gateway, it is the wireless gateway ID.

Length Constraints: Maximum length of 256.

Required: Yes

ResourceType (p. 198)

The type of the resource, which can be `WirelessDevice` or `WirelessGateway`.

Required: Yes

Request Body

The request accepts the following data in JSON format.

LogLevel (p. 198)

The log level for a log message. The log levels can be disabled, or set to `ERROR` to display less verbose logs containing only error information, or to `INFO` for more detailed logs.

Type: String

Valid Values: `INFO` | `ERROR` | `DISABLED`

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 \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ResetAllResourceLogLevels

Removes the log-level overrides for all resources; both wireless devices and wireless gateways.

Request Syntax

```
DELETE /log-levels HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ResetResourceLogLevel

Removes the log-level override, if any, for a specific resource-ID and resource-type. It can be used for a wireless device or a wireless gateway.

Request Syntax

```
DELETE /log-levels/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 202)

The identifier of the resource. For a Wireless Device, it is the wireless device ID. For a wireless gateway, it is the wireless gateway ID.

Length Constraints: Maximum length of 256.

Required: Yes

ResourceType (p. 202)

The type of the resource, which can be `WirelessDevice` or `WirelessGateway`.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

SendDataToMulticastGroup

Sends the specified data to a multicast group.

Request Syntax

```
POST /multicast-groups/Id/data HTTP/1.1
Content-type: application/json

{
  "PayloadData": "string",
  "WirelessMetadata": {
    "LoRaWAN": {
      "FPort": number
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 204)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

PayloadData (p. 204)

The binary to be sent to the end device, encoded in base64.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: ^(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?\$

Required: Yes

WirelessMetadata (p. 204)

Wireless metadata that is to be sent to multicast group.

Type: [MulticastWirelessMetadata](#) (p. 317) object

Required: Yes

Response Syntax

```
HTTP/1.1 201
```

```
Content-type: application/json

{
    "MessageId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

MessageId (p. 204)

ID of a multicast group message.

Type: String

Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

SendDataToWirelessDevice

Sends a decrypted application data frame to a device.

Request Syntax

```
POST /wireless-devices/Id/data HTTP/1.1
Content-type: application/json

{
    "PayloadData": "string",
    "TransmitMode": "number",
    "WirelessMetadata": {
        "LoRaWAN": {
            "FPort": "number",
            "ParticipatingGateways": {
                "DownlinkMode": "string",
                "GatewayList": [
                    {
                        "DownlinkFrequency": "number",
                        "GatewayId": "string"
                    }
                ],
                "TransmissionInterval": "number"
            }
        },
        "Sidewalk": {
            "AckModeRetryDurationSecs": "number",
            "MessageType": "string",
            "Seq": "number"
        }
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 207)

The ID of the wireless device to receive the data.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

PayloadData (p. 207)

The binary to be sent to the end device, encoded in base64.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: ^(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?\$

Required: Yes

[TransmitMode \(p. 207\)](#)

The transmit mode to use to send data to the wireless device. Can be: 0 for UM (unacknowledge mode) or 1 for AM (acknowledge mode).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: Yes

[WirelessMetadata \(p. 207\)](#)

Metadata about the message request.

Type: [WirelessMetadata \(p. 357\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
    "MessageId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

[MessageId \(p. 208\)](#)

The ID of the message sent to the wireless device.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartBulkAssociateWirelessDeviceWithMulticastGroup

Starts a bulk association of all qualifying wireless devices with a multicast group.

Request Syntax

```
PATCH /multicast-groups/Id/bulk HTTP/1.1
Content-type: application/json

{
  "QueryString": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 210)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

QueryString (p. 210)

Query string used to search for wireless devices as part of the bulk associate and disassociate process.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

Tags (p. 210)

The tag to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag](#) (p. 342) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartBulkDisassociateWirelessDeviceFromMulticastGroup

Starts a bulk disassociatin of all qualifying wireless devices from a multicast group.

Request Syntax

```
POST /multicast-groups/Id/bulk HTTP/1.1
Content-type: application/json

{
  "QueryString": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 213)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

QueryString (p. 213)

Query string used to search for wireless devices as part of the bulk associate and disassociate process.

Type: String

Length Constraints: Maximum length of 4096.

Required: No

Tags (p. 213)

The tag to attach to the specified resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag](#) (p. 342) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartFuotaTask

Starts a FUOTA task.

Request Syntax

```
PUT /fuota-tasks/Id HTTP/1.1
Content-type: application/json

{
  "LoRaWAN": {
    "StartTime": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 216\)](#)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[LoRaWAN \(p. 216\)](#)

The LoRaWAN information used to start a FUOTA task.

Type: [LoRaWANStartFuotaTask \(p. 309\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartMulticastGroupSession

Starts a multicast group session.

Request Syntax

```
PUT /multicast-groups/Id/session HTTP/1.1
Content-type: application/json

{
  "LoRaWAN": {
    "DlDr": number,
    "DlFreq": number,
    "SessionStartTime": number,
    "SessionTimeout": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 218)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

LoRaWAN (p. 218)

The LoRaWAN information used with the multicast session.

Type: [LoRaWANMulticastSession](#) (p. 306) object

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 360).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds a tag to a resource.

Request Syntax

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

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

URI Request Parameters

The request uses the following URI parameters.

[ResourceArn \(p. 220\)](#)

The ARN of the resource to add tags to.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Tags \(p. 220\)](#)

Adds to or modifies the tags of the given resource. Tags are metadata that you can use to manage a resource.

Type: Array of [Tag \(p. 342\)](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

TooManyTagsException

The request was denied because the resource can't have any more tags.

HTTP Status Code: 400

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TestWirelessDevice

Simulates a provisioned device by sending an uplink data payload of Hello.

Request Syntax

```
POST /wireless-devices/Id/test HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 222\)](#)

The ID of the wireless device to test.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "Result": "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.

[Result \(p. 222\)](#)

The result returned by the test.

Type: String

Length Constraints: Maximum length of 2048.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes one or more tags from a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

[ResourceArn \(p. 224\)](#)

The ARN of the resource to remove tags from.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

[TagKeys \(p. 224\)](#)

A list of the keys of the tags to remove from the resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDestination

Updates properties of a destination.

Request Syntax

```
PATCH /destinations/Name HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "Expression": "string",
    "ExpressionType": "string",
    "RoleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Name (p. 226)

The new name of the resource.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 226)

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Expression (p. 226)

The new rule name or topic rule to send messages to.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

ExpressionType (p. 226)

The type of value in Expression.

Type: String

Valid Values: RuleName | MqttTopic

Required: No

RoleArn (p. 226)

The ARN of the IAM Role that authorizes the destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateEventConfigurationByResourceTypes

Update the event configuration based on resource types.

Request Syntax

```
PATCH /event-configurations-resource-types HTTP/1.1
Content-type: application/json

{
  "ConnectionStatus": {
    "LoRaWAN": {
      "WirelessGatewayEventTopic": "string"
    }
  },
  "DeviceRegistrationState": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "Join": {
    "LoRaWAN": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "MessageDeliveryStatus": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "string"
    }
  },
  "Proximity": {
    "Sidewalk": {
      "WirelessDeviceEventTopic": "string"
    }
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[ConnectionStatus \(p. 229\)](#)

Connection status resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [ConnectionStatusResourceTypeEventConfiguration \(p. 266\)](#) object

Required: No

[DeviceRegistrationState \(p. 229\)](#)

Device registration state resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [DeviceRegistrationStateResourceTypeEventConfiguration \(p. 271\)](#) object

Required: No

[Join \(p. 229\)](#)

Join resource type event configuration object for enabling and disabling wireless device topic.

Type: [JoinResourceTypeEventConfiguration \(p. 279\)](#) object

Required: No

[MessageDeliveryStatus \(p. 229\)](#)

Message delivery status resource type event configuration object for enabling and disabling wireless device topic.

Type: [MessageDeliveryStatusResourceTypeEventConfiguration \(p. 314\)](#) object

Required: No

[Proximity \(p. 229\)](#)

Proximity resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [ProximityResourceTypeEventConfiguration \(p. 327\)](#) object

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateFuotaTask

Updates properties of a FUOTA task.

Request Syntax

```
PATCH /fuota-tasks/Id HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "FirmwareUpdateImage": "string",
    "FirmwareUpdateRole": "string",
    "LoRaWAN": {
        "RfRegion": "string"
    },
    "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 232)

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 232)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

FirmwareUpdateImage (p. 232)

The S3 URI points to a firmware update image that is to be used with a FUOTA task.

Type: String

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

Required: No

FirmwareUpdateRole (p. 232)

The firmware update role that is to be used with a FUOTA task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

LoRaWAN (p. 232)

The LoRaWAN information used with a FUOTA task.

Type: [LoRaWANFuotaTask \(p. 290\)](#) object

Required: No

Name (p. 232)

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateLogLevelsByResourceTypes

Set default log level, or log levels by resource types. This can be for wireless device log options or wireless gateways log options and is used to control the log messages that'll be displayed in CloudWatch.

Request Syntax

```
POST /log-levels HTTP/1.1
Content-type: application/json

{
  "DefaultLogLevel": "string",
  "WirelessDeviceLogOptions": [
    {
      "Events": [
        {
          "Event": "string",
          "LogLevel": "string"
        }
      ],
      "LogLevel": "string",
      "Type": "string"
    }
  ],
  "WirelessGatewayLogOptions": [
    {
      "Events": [
        {
          "Event": "string",
          "LogLevel": "string"
        }
      ],
      "LogLevel": "string",
      "Type": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[DefaultLogLevel \(p. 235\)](#)

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

Required: No

[WirelessDeviceLogOptions \(p. 235\)](#)

The list of wireless device log options.

Type: Array of [WirelessDeviceLogOption \(p. 350\)](#) objects

Required: No

[WirelessGatewayLogOptions \(p. 235\)](#)

The list of wireless gateway log options.

Type: Array of [WirelessGatewayLogOption \(p. 354\)](#) objects

Required: No

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 \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateMulticastGroup

Updates properties of a multicast group session.

Request Syntax

```
PATCH /multicast-groups/Id HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "LoRaWAN": {
        "DlClass": "string",
        "RfRegion": "string"
    },
    "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[Id \(p. 238\)](#)

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Description \(p. 238\)](#)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[LoRaWAN \(p. 238\)](#)

The LoRaWAN information that is to be used with the multicast group.

Type: [LoRaWANMulticast \(p. 303\)](#) object

Required: No

[Name \(p. 238\)](#)

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

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

UpdateNetworkAnalyzerConfiguration

Update network analyzer configuration.

Request Syntax

```
PATCH /network-analyzer-configurations/ConfigurationName HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "TraceContent": {
    "LogLevel": "string",
    "WirelessDeviceFrameInfo": "string"
  },
  "WirelessDevicesToAdd": [ "string" ],
  "WirelessDevicesToRemove": [ "string" ],
  "WirelessGatewaysToAdd": [ "string" ],
  "WirelessGatewaysToRemove": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

ConfigurationName (p. 241)

Name of the network analyzer configuration.

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

Pattern: [a-zA-Z0-9-_]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 241)

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

TraceContent (p. 241)

Trace content for your wireless gateway and wireless device resources.

Type: [TraceContent](#) (p. 343) object

Required: No

[WirelessDevicesToAdd \(p. 241\)](#)

Wireless device resources to add to the network analyzer configuration. Provide the `WirelessDeviceId` of the resource to add in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Maximum length of 256.

Required: No

[WirelessDevicesToRemove \(p. 241\)](#)

Wireless device resources to remove from the network analyzer configuration. Provide the `WirelessDeviceId` of the resources to remove in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Maximum length of 256.

Required: No

[WirelessGatewaysToAdd \(p. 241\)](#)

Wireless gateway resources to add to the network analyzer configuration. Provide the `WirelessGatewayId` of the resource to add in the input array.

Type: Array of strings

Length Constraints: Maximum length of 256.

Required: No

[WirelessGatewaysToRemove \(p. 241\)](#)

Wireless gateway resources to remove from the network analyzer configuration. Provide the `WirelessGatewayId` of the resources to remove in the input array.

Type: Array of strings

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdatePartnerAccount

Updates properties of a partner account.

Request Syntax

```
PATCH /partner-accounts/PartnerAccountId?partnerType=PartnerType HTTP/1.1
Content-type: application/json

{
    "Sidewalk": {
        "AppServerPrivateKey": "string"
    }
}
```

URI Request Parameters

The request uses the following URI parameters.

PartnerAccountId (p. 244)

The ID of the partner account to update.

Length Constraints: Maximum length of 256.

Required: Yes

PartnerType (p. 244)

The partner type.

Valid Values: Sidewalk

Required: Yes

Request Body

The request accepts the following data in JSON format.

Sidewalk (p. 244)

The Sidewalk account credentials.

Type: [SidewalkUpdateAccount](#) (p. 341) object

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdatePosition

Update the position information of a resource.

Request Syntax

```
PATCH /positions/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
Content-type: application/json

{
    "Position": [ number ]
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceIdentifier (p. 246)

Resource identifier of the resource for which position is updated.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: Yes

ResourceType (p. 246)

Resource type of the resource for which position is updated.

Valid Values: WirelessDevice | WirelessGateway

Required: Yes

Request Body

The request accepts the following data in JSON format.

Position (p. 246)

The position information of the resource.

Type: Array of floats

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateResourceEventConfiguration

Update the event configuration for a particular resource identifier.

Request Syntax

```
PATCH /event-configurations/Identifier?  
identifierType=IdentifierType&partnerType=PartnerType HTTP/1.1  
Content-type: application/json  
  
{  
    "ConnectionStatus": {  
        "LoRaWAN": {  
            "GatewayEuiEventTopic": "string"  
        },  
        "WirelessGatewayIdEventTopic": "string"  
    },  
    "DeviceRegistrationState": {  
        "Sidewalk": {  
            "AmazonIdEventTopic": "string"  
        },  
        "WirelessDeviceIdEventTopic": "string"  
    },  
    "Join": {  
        "LoRaWAN": {  
            "DevEuiEventTopic": "string"  
        },  
        "WirelessDeviceIdEventTopic": "string"  
    },  
    "MessageDeliveryStatus": {  
        "Sidewalk": {  
            "AmazonIdEventTopic": "string"  
        },  
        "WirelessDeviceIdEventTopic": "string"  
    },  
    "Proximity": {  
        "Sidewalk": {  
            "AmazonIdEventTopic": "string"  
        },  
        "WirelessDeviceIdEventTopic": "string"  
    }  
}
```

URI Request Parameters

The request uses the following URI parameters.

Identifier (p. 248)

Resource identifier to opt in for event messaging.

Length Constraints: Maximum length of 256.

Required: Yes

IdentifierType (p. 248)

Identifier type of the particular resource identifier for event configuration.

Valid Values: PartnerAccountId | DevEui | GatewayEui | WirelessDeviceId | WirelessGatewayId

Required: Yes

[PartnerType \(p. 248\)](#)

Partner type of the resource if the identifier type is PartnerAccountId

Valid Values: Sidewalk

Request Body

The request accepts the following data in JSON format.

[ConnectionStatus \(p. 248\)](#)

Event configuration for the connection status event.

Type: [ConnectionStatusEventConfiguration \(p. 265\)](#) object

Required: No

[DeviceRegistrationState \(p. 248\)](#)

Event configuration for the device registration state event.

Type: [DeviceRegistrationStateEventConfiguration \(p. 270\)](#) object

Required: No

[Join \(p. 248\)](#)

Event configuration for the join event.

Type: [JoinEventConfiguration \(p. 278\)](#) object

Required: No

[MessageDeliveryStatus \(p. 248\)](#)

Event configuration for the message delivery status event.

Type: [MessageDeliveryStatusEventConfiguration \(p. 313\)](#) object

Required: No

[Proximity \(p. 248\)](#)

Event configuration for the proximity event.

Type: [ProximityEventConfiguration \(p. 326\)](#) object

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

ConflictException

Adding, updating, or deleting the resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWirelessDevice

Updates properties of a wireless device.

Request Syntax

```
PATCH /wireless-devices/Id HTTP/1.1
Content-type: application/json

{
    "Description": "string",
    "DestinationName": "string",
    "LoRaWAN": {
        "AbpV1_0_x": {
            "FCntStart": number
        },
        "AbpV1_1": {
            "FCntStart": number
        },
        "DeviceProfileId": "string",
        "FPorts": {
            "Positioning": {
                "ClockSync": number,
                "Gnss": number,
                "Stream": number
            }
        },
        "ServiceProfileId": "string"
    },
    "Name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 251)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 251)

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

[DestinationName \(p. 251\)](#)

The name of the new destination for the device.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: No

[LoRaWAN \(p. 251\)](#)

The updated wireless device's configuration.

Type: [LoRaWANUpdateDevice \(p. 310\)](#) object

Required: No

[Name \(p. 251\)](#)

The new name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWirelessGateway

Updates properties of a wireless gateway.

Request Syntax

```
PATCH /wireless-gateways/Id HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "JoinEuiFilters": [
    [ "string" ]
  ],
  "Name": "string",
  "NetIdFilters": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Id (p. 254)

The ID of the resource to update.

Length Constraints: Maximum length of 256.

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description (p. 254)

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

JoinEuiFilters (p. 254)

A list of JoinEuiRange used by LoRa gateways to filter LoRa frames.

Type: Array of arrays of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Array Members: Fixed number of 2 items.

Pattern: [a-fA-F0-9]{16}

Required: No

[Name \(p. 254\)](#)

The new name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[NetIdFilters \(p. 254\)](#)

A list of NetId values that are used by LoRa gateways to filter the uplink frames.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Pattern: [a-fA-F0-9]{6}

Required: No

Response Syntax

HTTP/1.1 204

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 360\)](#).

AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

InternalServerException

An unexpected error occurred while processing a request.

HTTP Status Code: 500

ResourceNotFoundException

Resource does not exist.

HTTP Status Code: 404

ThrottlingException

The request was denied because it exceeded the allowed API request rate.

HTTP Status Code: 429

ValidationException

The input did not meet the specified constraints.

HTTP Status Code: 400

See Also

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

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

- [AbpV1_0_x \(p. 260\)](#)
- [AbpV1_1 \(p. 261\)](#)
- [Accuracy \(p. 262\)](#)
- [Beaconing \(p. 263\)](#)
- [CertificateList \(p. 264\)](#)
- [ConnectionStatusEventConfiguration \(p. 265\)](#)
- [ConnectionStatusResourceTypeEventConfiguration \(p. 266\)](#)
- [Destinations \(p. 267\)](#)
- [DeviceProfile \(p. 269\)](#)
- [DeviceRegistrationStateEventConfiguration \(p. 270\)](#)
- [DeviceRegistrationStateResourceTypeEventConfiguration \(p. 271\)](#)
- [DownlinkQueueMessage \(p. 272\)](#)
- [EventConfigurationItem \(p. 273\)](#)
- [EventNotificationItemConfigurations \(p. 274\)](#)
- [FPorts \(p. 275\)](#)
- [FuotaTask \(p. 276\)](#)
- [GatewayListItem \(p. 277\)](#)
- [JoinEventConfiguration \(p. 278\)](#)
- [JoinResourceTypeEventConfiguration \(p. 279\)](#)
- [LoRaWANConnectionStatusEventNotificationConfigurations \(p. 280\)](#)
- [LoRaWANConnectionStatusResourceTypeEventConfiguration \(p. 281\)](#)
- [LoRaWANDevice \(p. 282\)](#)
- [LoRaWANDeviceMetadata \(p. 284\)](#)
- [LoRaWANDeviceProfile \(p. 286\)](#)
- [LoRaWANFuotaTask \(p. 290\)](#)
- [LoRaWANFuotaTaskGetInfo \(p. 291\)](#)
- [LoRaWANGateway \(p. 292\)](#)
- [LoRaWANGatewayCurrentVersion \(p. 294\)](#)
- [LoRaWANGatewayMetadata \(p. 295\)](#)
- [LoRaWANGatewayVersion \(p. 296\)](#)
- [LoRaWANGetServiceProfileInfo \(p. 297\)](#)
- [LoRaWANJoinEventNotificationConfigurations \(p. 300\)](#)
- [LoRaWANJoinResourceTypeEventConfiguration \(p. 301\)](#)
- [LoRaWANListDevice \(p. 302\)](#)
- [LoRaWANMulticast \(p. 303\)](#)

- [LoRaWANMulticastGet \(p. 304\)](#)
- [LoRaWANMulticastMetadata \(p. 305\)](#)
- [LoRaWANMulticastSession \(p. 306\)](#)
- [LoRaWANSendDataToDevice \(p. 307\)](#)
- [LoRaWANServiceProfile \(p. 308\)](#)
- [LoRaWANStartFuotaTask \(p. 309\)](#)
- [LoRaWANUpdateDevice \(p. 310\)](#)
- [LoRaWANUpdateGatewayTaskCreate \(p. 311\)](#)
- [LoRaWANUpdateGatewayTaskEntry \(p. 312\)](#)
- [MessageDeliveryStatusEventConfiguration \(p. 313\)](#)
- [MessageDeliveryStatusResourceTypeEventConfiguration \(p. 314\)](#)
- [MulticastGroup \(p. 315\)](#)
- [MulticastGroupByFuotaTask \(p. 316\)](#)
- [MulticastWirelessMetadata \(p. 317\)](#)
- [NetworkAnalyzerConfigurations \(p. 318\)](#)
- [OtaaV1_0_x \(p. 319\)](#)
- [OtaaV1_1 \(p. 320\)](#)
- [ParticipatingGateways \(p. 321\)](#)
- [PositionConfigurationItem \(p. 322\)](#)
- [Positioning \(p. 323\)](#)
- [PositionSolverConfigurations \(p. 324\)](#)
- [PositionSolverDetails \(p. 325\)](#)
- [ProximityEventConfiguration \(p. 326\)](#)
- [ProximityResourceTypeEventConfiguration \(p. 327\)](#)
- [SemtechGnssConfiguration \(p. 328\)](#)
- [SemtechGnssDetail \(p. 329\)](#)
- [ServiceProfile \(p. 330\)](#)
- [SessionKeysAbpV1_0_x \(p. 331\)](#)
- [SessionKeysAbpV1_1 \(p. 332\)](#)
- [SidewalkAccountInfo \(p. 333\)](#)
- [SidewalkAccountInfoWithFingerprint \(p. 334\)](#)
- [SidewalkDevice \(p. 335\)](#)
- [SidewalkDeviceMetadata \(p. 336\)](#)
- [SidewalkEventNotificationConfigurations \(p. 337\)](#)
- [SidewalkListDevice \(p. 338\)](#)
- [SidewalkResourceTypeEventConfiguration \(p. 339\)](#)
- [SidewalkSendDataToDevice \(p. 340\)](#)
- [SidewalkUpdateAccount \(p. 341\)](#)
- [Tag \(p. 342\)](#)
- [TraceContent \(p. 343\)](#)
- [UpdateAbpV1_0_x \(p. 344\)](#)
- [UpdateAbpV1_1 \(p. 345\)](#)
- [UpdateFPorts \(p. 346\)](#)
- [UpdateWirelessGatewayTaskCreate \(p. 347\)](#)
- [UpdateWirelessGatewayTaskEntry \(p. 348\)](#)
- [WirelessDeviceEventLogOption \(p. 349\)](#)

- [WirelessDeviceLogOption \(p. 350\)](#)
- [WirelessDeviceStatistics \(p. 351\)](#)
- [WirelessGatewayEventLogOption \(p. 353\)](#)
- [WirelessGatewayLogOption \(p. 354\)](#)
- [WirelessGatewayStatistics \(p. 355\)](#)
- [WirelessMetadata \(p. 357\)](#)

AbpV1_0_x

ABP device object for LoRaWAN specification v1.0.x

Contents

DevAddr

The DevAddr value.

Type: String

Pattern: [a-fA-F0-9]{8}

Required: No

FCntStart

The FCnt init value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

SessionKeys

Session keys for ABP v1.0.x

Type: [SessionKeysAbpV1_0_x \(p. 331\)](#) 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](#)

AbpV1_1

ABP device object for LoRaWAN specification v1.1

Contents

DevAddr

The DevAddr value.

Type: String

Pattern: [a-fA-F0-9]{8}

Required: No

FCntStart

The FCnt init value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

SessionKeys

Session keys for ABP v1.1

Type: [SessionKeysAbpV1_1 \(p. 332\)](#) 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](#)

Accuracy

The accuracy of the estimated position in meters. An empty value indicates that no position data is available. A value of '0.0' value indicates that position data is available. This data corresponds to the position information that you specified instead of the position computed by solver.

Contents

HorizontalAccuracy

The horizontal accuracy of the estimated position in meters.

Type: Float

Valid Range: Minimum value of 0.

Required: No

VerticalAccuracy

The vertical accuracy of the estimated position in meters.

Type: Float

Valid Range: Minimum value of 0.

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](#)

Beaconing

Beaconing parameters for configuring the wireless gateways.

Contents

DataRate

The data rate for gateways that are sending the beacons.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

Frequencies

The frequency list for the gateways to send the beacons.

Type: Array of integers

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Valid Range: Minimum value of 100000000. Maximum value of 1000000000.

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](#)

CertificateList

List of sidewalk certificates.

Contents

SigningAlg

The certificate chain algorithm provided by sidewalk.

Type: String

Valid Values: Ed25519 | P256r1

Required: Yes

Value

The value of the chosen sidewalk certificate.

Type: String

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

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](#)

ConnectionStatusEventConfiguration

Connection status event configuration object for enabling or disabling topic.

Contents

LoRaWAN

Connection status event configuration object for enabling or disabling LoRaWAN related event topics.

Type: [LoRaWANConnectionStatusEventNotificationConfigurations \(p. 280\)](#) object

Required: No

WirelessGatewayIdEventTopic

Denotes whether the wireless gateway ID connection status event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

ConnectionStatusResourceTypeEventConfiguration

Connection status resource type event configuration object for enabling or disabling topic.

Contents

LoRaWAN

Connection status resource type event configuration object for enabling or disabling LoRaWAN related event topics.

Type: [LoRaWANConnectionStatusResourceTypeEventConfiguration \(p. 281\)](#) 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](#)

Destinations

Describes a destination.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Description

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Expression

The rule name or topic rule to send messages to.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

ExpressionType

The type of value in Expression.

Type: String

Valid Values: RuleName | MqttTopic

Required: No

Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: No

RoleArn

The ARN of the IAM Role that authorizes the destination.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

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](#)

DeviceProfile

Describes a device profile.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Id

The ID of the device profile.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

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](#)

DeviceRegistrationStateEventConfiguration

Device registration state event configuration object for enabling and disabling relevant topics.

Contents

Sidewalk

Device registration state event configuration object for enabling or disabling Sidewalk related event topics.

Type: [SidewalkEventNotificationConfigurations \(p. 337\)](#) object

Required: No

WirelessDeviceIdEventTopic

Denotes whether the wireless device ID device registration state event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

DeviceRegistrationStateResourceTypeEventConfiguration

Device registration state resource type event configuration object for enabling or disabling topic.

Contents

Sidewalk

Device registration resource type state event configuration object for enabling or disabling Sidewalk related event topics.

Type: [SidewalkResourceTypeEventConfiguration \(p. 339\)](#) 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](#)

DownlinkQueueMessage

The message in the downlink queue.

Contents

LoRaWAN

LoRaWAN router info.

Type: [LoRaWANSendDataToDevice \(p. 307\)](#) object

Required: No

MessageId

The message ID assigned by IoT Wireless to each downlink message, which helps identify the message.

Type: String

Required: No

ReceivedAt

The time at which IoT Wireless received the downlink message.

Type: String

Pattern: ^([+-]?\d{4}(?!d{2}\b))((-?)(\0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|W([0-4]\d|5[0-2])(-[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s](((01]\d|2[0-3])(:?)0-5]\d)?|24\z:00)([\.,]\d+(?:\z))?)?(\17[0-5]\d([\.,]\d+)?)?([zz]|([\+-])([01]\d|2[0-3]):?([0-5]\d)?))?)?#\$

Required: No

TransmitMode

The transmit mode to use for sending data to the wireless device. This can be 0 for UM (unacknowledge mode) or 1 for AM (acknowledge mode).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

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](#)

EventConfigurationItem

Event configuration object for a single resource.

Contents

Events

Object of all event configurations and the status of the event topics.

Type: [EventNotificationItemConfigurations \(p. 274\)](#) object

Required: No

Identifier

Resource identifier opted in for event messaging.

Type: String

Length Constraints: Maximum length of 256.

Required: No

IdentifierType

Identifier type of the particular resource identifier for event configuration.

Type: String

Valid Values: PartnerAccountId | DevEui | GatewayEui | WirelessDeviceId | WirelessGatewayId

Required: No

PartnerType

Partner type of the resource if the identifier type is PartnerAccountId.

Type: String

Valid Values: Sidewalk

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](#)

EventNotificationItemConfigurations

Object of all event configurations and the status of the event topics.

Contents

ConnectionStatus

Connection status event configuration for an event configuration item.

Type: [ConnectionStatusEventConfiguration \(p. 265\)](#) object

Required: No

DeviceRegistrationState

Device registration state event configuration for an event configuration item.

Type: [DeviceRegistrationStateEventConfiguration \(p. 270\)](#) object

Required: No

Join

Join event configuration for an event configuration item.

Type: [JoinEventConfiguration \(p. 278\)](#) object

Required: No

MessageDeliveryStatus

Message delivery status event configuration for an event configuration item.

Type: [MessageDeliveryStatusEventConfiguration \(p. 313\)](#) object

Required: No

Proximity

Proximity event configuration for an event configuration item.

Type: [ProximityEventConfiguration \(p. 326\)](#) 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](#)

FPorts

List of FPort assigned for different LoRaWAN application packages to use

Contents

ClockSync

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

Fuota

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

Multicast

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

Positioning

FPort values for the GNSS, stream, and ClockSync functions of the positioning information.

Type: [Positioning \(p. 323\)](#) 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](#)

FuotaTask

A FUOTA task.

Contents

Arn

The arn of a FUOTA task.

Type: String

Length Constraints: Maximum length of 128.

Required: No

Id

The ID of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Name

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

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](#)

GatewayListItem

Gateway list item object that specifies the frequency and list of gateways for which the downlink message should be sent.

Contents

DownlinkFrequency

The frequency to use for the gateways when sending a downlink message to the wireless device.

Type: Integer

Valid Range: Minimum value of 100000000. Maximum value of 1000000000.

Required: Yes

GatewayId

The ID of the wireless gateways that you want to add to the list of gateways when sending downlink messages.

Type: String

Length Constraints: Maximum length of 256.

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](#)

JoinEventConfiguration

Join event configuration object for enabling or disabling topic.

Contents

LoRaWAN

Join event configuration object for enabling or disabling LoRaWAN related event topics.

Type: [LoRaWANJoinEventNotificationConfigurations \(p. 300\)](#) object

Required: No

WirelessDeviceIdEventTopic

Denotes whether the wireless device ID join event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

JoinResourceTypeEventConfiguration

Join resource type event configuration object for enabling or disabling topic.

Contents

LoRaWAN

Join resource type event configuration object for enabling or disabling LoRaWAN related event topics.

Type: [LoRaWANJoinResourceTypeEventConfiguration \(p. 301\)](#) 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](#)

LoRaWANConnectionStatusEventNotificationConfigurations

Object for LoRaWAN connection status resource type event configuration.

Contents

GatewayEuiEventTopic

Denotes whether the gateway EUI connection status event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

LoRaWANConnectionStatusResourceTypeEventConfiguration

Object for LoRaWAN connection status resource type event configuration.

Contents

WirelessGatewayEventTopic

Denotes whether the wireless gateway connection status event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

LoRaWANDevice

LoRaWAN object for create functions.

Contents

AbpV1_0_x

LoRaWAN object for create APIs

Type: [AbpV1_0_x \(p. 260\)](#) object

Required: No

AbpV1_1

ABP device object for create APIs for v1.1

Type: [AbpV1_1 \(p. 261\)](#) object

Required: No

DevEui

The DevEUI value.

Type: String

Pattern: [a-fA-F0-9]{16}

Required: No

DeviceProfileId

The ID of the device profile for the new wireless device.

Type: String

Length Constraints: Maximum length of 256.

Required: No

FPorts

List of FPort assigned for different LoRaWAN application packages to use

Type: [FPorts \(p. 275\)](#) object

Required: No

OtaaV1_0_x

OTAA device object for create APIs for v1.0.x

Type: [OtaaV1_0_x \(p. 319\)](#) object

Required: No

OtaaV1_1

OTAA device object for v1.1 for create APIs

Type: [OtaaV1_1 \(p. 320\)](#) object

Required: No

ServiceProfileId

The ID of the service profile.

Type: String

Length Constraints: Maximum length of 256.

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](#)

LoRaWANDeviceMetadata

LoRaWAN device metadata.

Contents

DataRate

The DataRate value.

Type: Integer

Required: No

DevEui

The DevEUI value.

Type: String

Pattern: [a-fA-F0-9]{16}

Required: No

FPort

The FPort value.

Type: Integer

Required: No

Frequency

The device's channel frequency in Hz.

Type: Integer

Required: No

Gateways

Information about the gateways accessed by the device.

Type: Array of [LoRaWANGatewayMetadata \(p. 295\)](#) objects

Required: No

Timestamp

The date and time of the metadata.

Type: String

Pattern: ^([+-]?\d{4}(?! \d{2}\b))((-?)((0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|\w([0-4]\d|5[0-2])(-[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s](([01]\d|2[0-3])(:?\d{2})?|24:\d{2})([\.,]\d+(?:\d+)?))?(\\17[0-5]\d([\.,]\d+)?)([zz]|([+-])([01]\d|2[0-3]):?([0-5]\d)?))?)?\$/

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](#)

LoRaWANDeviceProfile

LoRaWANDeviceProfile object.

Contents

ClassBTimeout

The ClassBTimeout value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000.

Required: No

ClassCTimeout

The ClassCTimeout value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1000.

Required: No

FactoryPresetFreqsList

The list of values that make up the FactoryPresetFreqs value.

Type: Array of integers

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Valid Range: Minimum value of 1000000. Maximum value of 16700000.

Required: No

MacVersion

The MAC version (such as OTAA 1.1 or OTAA 1.0.3) to use with this device profile.

Type: String

Length Constraints: Maximum length of 64.

Required: No

MaxDutyCycle

The MaxDutyCycle value.

Type: Integer

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

Required: No

MaxEirp

The MaxEIRP value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

PingSlotDr

The PingSlotDR value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

PingSlotFreq

The PingSlotFreq value.

Type: Integer

Valid Range: Minimum value of 1000000. Maximum value of 16700000.

Required: No

PingSlotPeriod

The PingSlotPeriod value.

Type: Integer

Valid Range: Minimum value of 128. Maximum value of 4096.

Required: No

RegParamsRevision

The version of regional parameters.

Type: String

Length Constraints: Maximum length of 64.

Required: No

RfRegion

The frequency band (RFRegion) value.

Type: String

Length Constraints: Maximum length of 64.

Required: No

RxDataRate2

The RXDataRate2 value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

RxDelay1

The RXDelay1 value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

RxDroffset1

The RXDROffset1 value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 7.

Required: No

RxFreq2

The RXFreq2 value.

Type: Integer

Valid Range: Minimum value of 1000000. Maximum value of 16700000.

Required: No

Supports32BitFCnt

The Supports32BitFCnt value.

Type: Boolean

Required: No

SupportsClassB

The SupportsClassB value.

Type: Boolean

Required: No

SupportsClassC

The SupportsClassC value.

Type: Boolean

Required: No

SupportsJoin

The SupportsJoin value.

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](#)

LoRaWANFuotaTask

The LoRaWAN information used with a FUOTA task.

Contents

RfRegion

Supported RfRegions

Type: String

Valid Values: EU868 | US915 | AU915 | AS923-1

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](#)

LoRaWANFuotaTaskGetInfo

The LoRaWAN information returned from getting a FUOTA task.

Contents

RfRegion

The frequency band (RFRegion) value.

Type: String

Length Constraints: Maximum length of 64.

Required: No

StartTime

Start time of a FUOTA task.

Type: Timestamp

Required: No

See Also

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

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

LoRaWANGateway

LoRaWANGateway object.

Contents

Beaconing

Beaconing object information, which consists of the data rate and frequency parameters.

Type: [Beaconing \(p. 263\)](#) object

Required: No

GatewayEui

The gateway's EUI value.

Type: String

Pattern: ^(([0-9A-Fa-f]{2}-){7}|([0-9A-Fa-f]{2}:){7}|([0-9A-Fa-f]{2}\s){7}|([0-9A-Fa-f]{2}){7})([0-9A-Fa-f]{2})\$

Required: No

JoinEuiFilters

A list of JoinEuiRange used by LoRa gateways to filter LoRa frames.

Type: Array of arrays of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Array Members: Fixed number of 2 items.

Pattern: [a-fA-F0-9]{16}

Required: No

NetIdFilters

A list of NetId values that are used by LoRa gateways to filter the uplink frames.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Pattern: [a-fA-F0-9]{6}

Required: No

RfRegion

The frequency band (RFRegion) value.

Type: String

Length Constraints: Maximum length of 64.

Required: No

SubBands

A list of integer indicating which sub bands are supported by LoRa gateway.

Type: Array of integers

Array Members: Minimum number of 0 items. Maximum number of 8 items.

Valid Range: Minimum value of 1. Maximum value of 8.

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](#)

LoRaWANGatewayCurrentVersion

LoRaWANGatewayCurrentVersion object.

Contents

CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion \(p. 296\)](#) 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](#)

LoRaWANGatewayMetadata

LoRaWAN gateway metadata.

Contents

GatewayEui

The gateway's EUI value.

Type: String

Pattern: ^(([0-9A-Fa-f]{2}-){7}|([0-9A-Fa-f]{2}:){7}|([0-9A-Fa-f]{2}\s){7}|([0-9A-Fa-f]{2}){7})([0-9A-Fa-f]{2})\$

Required: No

Rssi

The RSSI value.

Type: Double

Required: No

Snr

The SNR value.

Type: Double

Required: No

See Also

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

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

LoRaWANGatewayVersion

LoRaWANGatewayVersion object.

Contents

Model

The model number of the wireless gateway.

Type: String

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

Required: No

PackageVersion

The version of the wireless gateway firmware.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: No

Station

The basic station version of the wireless gateway.

Type: String

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

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](#)

LoRaWANGetServiceProfileInfo

LoRaWANGetServiceProfileInfo object.

Contents

AddGwMetadata

The AddGWMetaData value.

Type: Boolean

Required: No

ChannelMask

The ChannelMask value.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

DevStatusReqFreq

The DevStatusReqFreq value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

DlBucketSize

The DLBucketSize value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

DlRate

The DLRate value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

DlRatePolicy

The DLRatePolicy value.

Type: String

Length Constraints: Maximum length of 256.

Required: No

DrMax

The DRMax value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

DrMin

The DRMin value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

HrAllowed

The HRAccorded value that describes whether handover roaming is allowed.

Type: Boolean

Required: No

MinGwDiversity

The MinGwDiversity value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

NwkGeoLoc

The NwkGeoLoc value.

Type: Boolean

Required: No

PrAllowed

The PRAccorded value that describes whether passive roaming is allowed.

Type: Boolean

Required: No

RaAllowed

The RAAllowed value that describes whether roaming activation is allowed.

Type: Boolean

Required: No

ReportDevStatusBattery

The ReportDevStatusBattery value.

Type: Boolean

Required: No

ReportDevStatusMargin

The ReportDevStatusMargin value.

Type: Boolean

Required: No

TargetPer

The TargetPER value.

Type: Integer

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

Required: No

ULBucketSize

The ULBucketSize value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

ULRate

The ULRate value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 2147483647.

Required: No

ULRatePolicy

The ULRatePolicy value.

Type: String

Length Constraints: Maximum length of 256.

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](#)

LoRaWANJoinEventNotificationConfigurations

Object for LoRaWAN join resource type event configuration.

Contents

DevEuiEventTopic

Denotes whether the Dev EUI join event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

LoRaWANJoinResourceTypeEventConfiguration

Object for LoRaWAN join resource type event configuration.

Contents

WirelessDeviceEventTopic

Denotes whether the wireless device join event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

LoRaWANListDevice

LoRaWAN object for list functions.

Contents

DevEui

The DevEUI value.

Type: String

Pattern: [a-fA-F0-9]{16}

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](#)

LoRaWANMulticast

The LoRaWAN information that is to be used with the multicast group.

Contents

DlClass

DlClass for LoRaWAM, valid values are ClassB and ClassC.

Type: String

Length Constraints: Maximum length of 256.

Valid Values: ClassB | ClassC

Required: No

RfRegion

Supported RfRegions

Type: String

Valid Values: EU868 | US915 | AU915 | AS923-1

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](#)

LoRaWANMulticastGet

The LoRaWAN information that is to be returned from getting multicast group information.

Contents

DlClass

DlClass for LoRaWAM, valid values are ClassB and ClassC.

Type: String

Length Constraints: Maximum length of 256.

Valid Values: ClassB | ClassC

Required: No

NumberOfDevicesInGroup

Number of devices that are associated to the multicast group.

Type: Integer

Required: No

NumberOfDevicesRequested

Number of devices that are requested to be associated with the multicast group.

Type: Integer

Required: No

RfRegion

Supported RfRegions

Type: String

Valid Values: EU868 | US915 | AU915 | AS923-1

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](#)

LoRaWANMulticastMetadata

The metadata information of the LoRaWAN multicast group.

Contents

FPort

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

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](#)

LoRaWANMulticastSession

The LoRaWAN information used with the multicast session.

Contents

DlDr

Downlink data rate.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

DlFreq

Downlink frequency.

Type: Integer

Valid Range: Minimum value of 100000000. Maximum value of 1000000000.

Required: No

SessionStartTime

Timestamp of when the multicast group session is to start.

Type: Timestamp

Required: No

SessionTimeout

How long before a multicast group session is to timeout.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 172800.

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](#)

LoRaWANSendDataToDevice

LoRaWAN router info.

Contents

FPort

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

ParticipatingGateways

Choose the gateways that you want to use for the downlink data traffic when the wireless device is running in class B or class C mode.

Type: [ParticipatingGateways \(p. 321\)](#) 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](#)

LoRaWANServiceProfile

LoRaWANServiceProfile object.

Contents

AddGwMetadata

The AddGWMetaData value.

Type: Boolean

Required: No

DrMax

The DrMax value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

Required: No

DrMin

The DrMin value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 15.

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](#)

LoRaWANStartFuotaTask

The LoRaWAN information used to start a FUOTA task.

Contents

StartTime

Start time of a FUOTA task.

Type: Timestamp

Required: No

See Also

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

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

LoRaWANUpdateDevice

LoRaWAN object for update functions.

Contents

AbpV1_0_x

ABP device object for update APIs for v1.0.x

Type: [UpdateAbpV1_0_x \(p. 344\)](#) object

Required: No

AbpV1_1

ABP device object for update APIs for v1.1

Type: [UpdateAbpV1_1 \(p. 345\)](#) object

Required: No

DeviceProfileId

The ID of the device profile for the wireless device.

Type: String

Length Constraints: Maximum length of 256.

Required: No

FPorts

FPorts object for the positioning information of the device.

Type: [UpdateFPorts \(p. 346\)](#) object

Required: No

ServiceProfileId

The ID of the service profile.

Type: String

Length Constraints: Maximum length of 256.

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](#)

LoRaWANUpdateGatewayTaskCreate

LoRaWANUpdateGatewayTaskCreate object.

Contents

CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion \(p. 296\)](#) object

Required: No

SigKeyCrc

The CRC of the signature private key to check.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 4294967295.

Required: No

UpdateSignature

The signature used to verify the update firmware.

Type: String

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

Required: No

UpdateVersion

The firmware version to update the gateway to.

Type: [LoRaWANGatewayVersion \(p. 296\)](#) 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](#)

LoRaWANUpdateGatewayTaskEntry

LoRaWANUpdateGatewayTaskEntry object.

Contents

CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion \(p. 296\)](#) object

Required: No

UpdateVersion

The firmware version to update the gateway to.

Type: [LoRaWANGatewayVersion \(p. 296\)](#) 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](#)

MessageDeliveryStatusEventConfiguration

Message delivery status event configuration object for enabling and disabling relevant topics.

Contents

Sidewalk

SidewalkEventNotificationConfigurations object, which is the event configuration object for Sidewalk-related event topics.

Type: [SidewalkEventNotificationConfigurations \(p. 337\)](#) object

Required: No

WirelessDeviceIdEventTopic

Denotes whether the wireless device ID message delivery status event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

MessageDeliveryStatusResourceTypeEventConfiguration

Message delivery status resource type event configuration object for enabling or disabling relevant topic.

Contents

Sidewalk

Sidewalk resource type event configuration object for enabling or disabling topic.

Type: [SidewalkResourceTypeEventConfiguration \(p. 339\)](#) 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](#)

MulticastGroup

A multicast group.

Contents

Arn

The arn of the multicast group.

Type: String

Length Constraints: Maximum length of 128.

Required: No

Id

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Name

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

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](#)

MulticastGroupByFuotaTask

A multicast group that is associated with a FUOTA task.

Contents

Id

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

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](#)

MulticastWirelessMetadata

Wireless metadata that is to be sent to multicast group.

Contents

LoRaWAN

The metadata information of the LoRaWAN multicast group.

Type: [LoRaWMulticastMetadata \(p. 305\)](#) 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](#)

NetworkAnalyzerConfigurations

Network analyzer configurations.

Contents

Arn

The Amazon Resource Name of the new resource.

Type: String

Length Constraints: Maximum length of 1124.

Required: No

Name

Name of the network analyzer configuration.

Type: String

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

Pattern: [a-zA-Z0-9-_]+

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](#)

OtaaV1_0_x

OTAA device object for v1.0.x

Contents

AppEui

The AppEUI value.

Type: String

Pattern: [a-fA-F0-9]{16}

Required: No

AppKey

The AppKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

GenAppKey

The GenAppKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

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](#)

OtaaV1_1

OTAA device object for v1.1

Contents

AppKey

The AppKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

JoinEui

The JoinEUI value.

Type: String

Pattern: [a-fA-F0-9]{16}

Required: No

NwkKey

The NwkKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

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](#)

ParticipatingGateways

Specify the list of gateways to which you want to send downlink data traffic when the wireless device is running in class B or class C mode.

Contents

DownlinkMode

Indicates whether to send the downlink message in sequential mode or concurrent mode, or to use only the chosen gateways from the previous uplink message transmission.

Type: String

Valid Values: SEQUENTIAL | CONCURRENT | USING_UPLINK_GATEWAY

Required: Yes

GatewayList

The list of gateways that you want to use for sending the downlink data traffic.

Type: Array of [GatewayListItem \(p. 277\)](#) objects

Required: Yes

TransmissionInterval

The duration of time for which AWS IoT Core for LoRaWAN will wait before transmitting the payload to the next gateway.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 604800.

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](#)

PositionConfigurationItem

The wrapper for a position configuration.

Contents

Destination

The position data destination that describes the AWS IoT rule that processes the device's position data for use by AWS IoT Core for LoRaWAN.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: No

ResourceIdentifier

Resource identifier for the position configuration.

Type: String

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: No

ResourceType

Resource type of the resource for the position configuration.

Type: String

Valid Values: WirelessDevice | WirelessGateway

Required: No

Solvers

The details of the positioning solver object used to compute the location.

Type: [PositionSolverDetails \(p. 325\)](#) 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](#)

Positioning

The FPorts for the position information.

Contents

ClockSync

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

Gnss

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

Stream

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

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](#)

PositionSolverConfigurations

The wrapper for position solver configurations.

Contents

SemtechGnss

The Semtech GNSS solver configuration object.

Type: [SemtechGnssConfiguration \(p. 328\)](#) 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](#)

PositionSolverDetails

The wrapper for position solver details.

Contents

SemtechGnss

The Semtech GNSS solver object details.

Type: [SemtechGnssDetail \(p. 329\)](#) 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](#)

ProximityEventConfiguration

Proximity event configuration object for enabling and disabling relevant topics.

Contents

Sidewalk

Proximity event configuration object for enabling or disabling Sidewalk related event topics.

Type: [SidewalkEventNotificationConfigurations \(p. 337\)](#) object

Required: No

WirelessDeviceIdEventTopic

Denotes whether the wireless device ID proximity event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

ProximityResourceTypeEventConfiguration

Proximity resource type event configuration object for enabling or disabling topic.

Contents

Sidewalk

Proximity resource type event configuration object for enabling and disabling wireless device topic.

Type: [SidewalkResourceTypeEventConfiguration \(p. 339\)](#) 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](#)

SemtechGnssConfiguration

Information about the Semtech GNSS solver configuration.

Contents

Fec

Whether forward error correction is enabled.

Type: String

Valid Values: ROSE | NONE

Required: Yes

Status

The status indicating whether the solver is enabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

SemtechGnssDetail

Details of the Semtech GNSS solver object.

Contents

Fec

Whether forward error correction is enabled.

Type: String

Valid Values: ROSE | NONE

Required: No

Provider

The vendor of the solver object.

Type: String

Valid Values: Semtech

Required: No

Status

The status indicating whether the solver is enabled.

Type: String

Valid Values: Enabled | Disabled

Required: No

Type

The type of positioning solver used.

Type: String

Valid Values: GNSS

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](#)

ServiceProfile

Information about a service profile.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Id

The ID of the service profile.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

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](#)

SessionKeysAbpV1_0_x

Session keys for ABP v1.1

Contents

AppSKey

The AppSKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

NwkSKey

The NwkSKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

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](#)

SessionKeysAbpV1_1

Session keys for ABP v1.1

Contents

AppSKey

The AppSKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

FNwkSIntKey

The FNwkSIntKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

NwkSEncKey

The NwkSEncKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

Required: No

SNwkSIntKey

The SNwkSIntKey value.

Type: String

Pattern: [a-fA-F0-9]{32}

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](#)

SidewalkAccountInfo

Information about a Sidewalk account.

Contents

AmazonId

The Sidewalk Amazon ID.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

AppServerPrivateKey

The Sidewalk application server private key.

Type: String

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

Pattern: [a-fA-F0-9]{64}

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](#)

SidewalkAccountInfoWithFingerprint

Information about a Sidewalk account.

Contents

AmazonId

The Sidewalk Amazon ID.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Fingerprint

The fingerprint of the Sidewalk application server private key.

Type: String

Length Constraints: Fixed length of 64.

Pattern: [a-fA-F0-9]{64}

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](#)

SidewalkDevice

Sidewalk device object.

Contents

AmazonId

The Sidewalk Amazon ID.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

DeviceCertificates

The sidewalk device certificates for Ed25519 and P256r1.

Type: Array of [CertificateList \(p. 264\)](#) objects

Required: No

SidewalkId

The sidewalk device identification.

Type: String

Length Constraints: Maximum length of 256.

Required: No

SidewalkManufacturingSn

The Sidewalk manufacturing series number.

Type: String

Length Constraints: Maximum length of 64.

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](#)

SidewalkDeviceMetadata

MetaData for Sidewalk device.

Contents

BatteryLevel

Sidewalk device battery level.

Type: String

Valid Values: `normal` | `low` | `critical`

Required: No

DeviceState

Device state defines the device status of sidewalk device.

Type: String

Valid Values: `Provisioned` | `RegisteredNotSeen` | `RegisteredReachable` | `RegisteredUnreachable`

Required: No

Event

Sidewalk device status notification.

Type: String

Valid Values: `discovered` | `lost` | `ack` | `nack` | `passthrough`

Required: No

Rssi

The RSSI value.

Type: Integer

Required: No

See Also

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

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

SidewalkEventNotificationConfigurations

SidewalkEventNotificationConfigurations object, which is the event configuration object for Sidewalk-related event topics.

Contents

AmazonIdEventTopic

Denotes whether the Amazon ID event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

SidewalkListDevice

Sidewalk object used by list functions.

Contents

AmazonId

The Sidewalk Amazon ID.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

DeviceCertificates

The sidewalk device certificates for Ed25519 and P256r1.

Type: Array of [CertificateList \(p. 264\)](#) objects

Required: No

SidewalkId

The sidewalk device identification.

Type: String

Length Constraints: Maximum length of 256.

Required: No

SidewalkManufacturingSn

The Sidewalk manufacturing series number.

Type: String

Length Constraints: Maximum length of 64.

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](#)

SidewalkResourceTypeEventConfiguration

Sidewalk resource type event configuration object for enabling or disabling topic.

Contents

WirelessDeviceEventTopic

Denotes whether the wireless device join event topic is enabled or disabled.

Type: String

Valid Values: Enabled | Disabled

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](#)

SidewalkSendDataToDevice

Information about a Sidewalk router.

Contents

AckModeRetryDurationSecs

The duration of time in seconds to retry sending the ACK.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 604800.

Required: No

MessageType

Sidewalk device message type. Default value is CUSTOM_COMMAND_ID_NOTIFY.

Type: String

Valid Values: CUSTOM_COMMAND_ID_NOTIFY | CUSTOM_COMMAND_ID_GET |
CUSTOM_COMMAND_ID_SET | CUSTOM_COMMAND_ID_RESP

Required: No

Seq

The sequence number.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 16383.

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](#)

SidewalkUpdateAccount

Sidewalk update.

Contents

AppServerPrivateKey

The new Sidewalk application server private key.

Type: String

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

Pattern: [a-fA-F0-9]{64}

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](#)

Tag

A simple label consisting of a customer-defined key-value pair

Contents

Key

The tag's key value.

Type: String

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

Required: Yes

Value

The tag's value.

Type: String

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

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](#)

TraceContent

Trace content for your wireless gateway and wireless device resources.

Contents

LogLevel

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

Required: No

WirelessDeviceFrameInfo

FrameInfo of your wireless device resources for the trace content. Use FrameInfo to debug the communication between your LoRaWAN end devices and the network server.

Type: String

Valid Values: ENABLED | DISABLED

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](#)

UpdateAbpV1_0_x

ABP device object for LoRaWAN specification v1.0.x

Contents

FCntStart

The FCnt init value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

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](#)

UpdateAbpV1_1

ABP device object for LoRaWAN specification v1.1

Contents

FCntStart

The FCnt init value.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

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](#)

UpdateFPorts

Object for updating the FPorts information.

Contents

Positioning

Positioning FPorts for the ClockSync, Stream, and GNSS functions.

Type: [Positioning \(p. 323\)](#) 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](#)

UpdateWirelessGatewayTaskCreate

UpdateWirelessGatewayTaskCreate object.

Contents

LoRaWAN

The properties that relate to the LoRaWAN wireless gateway.

Type: [LoRaWANUpdateGatewayTaskCreate \(p. 311\)](#) object

Required: No

UpdateDataRole

The IAM role used to read data from the S3 bucket.

Type: String

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

Required: No

UpdateDataSource

The link to the S3 bucket.

Type: String

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

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](#)

UpdateWirelessGatewayTaskEntry

UpdateWirelessGatewayTaskEntry object.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Id

The ID of the new wireless gateway task entry.

Type: String

Length Constraints: Maximum length of 36.

Pattern: [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Required: No

LoRaWAN

The properties that relate to the LoRaWAN wireless gateway.

Type: [LoRaWANUpdateGatewayTaskEntry \(p. 312\)](#) 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](#)

WirelessDeviceEventLogOption

The log options for a wireless device event and can be used to set log levels for a specific wireless device event.

For a LoRaWAN device, possible events for a log message are: Join, Rejoin, Downlink_Data, and Uplink_Data. For a Sidewalk device, possible events for a log message are Registration, Downlink_Data, and Uplink_Data.

Contents

Event

The event for a log message, if the log message is tied to a wireless device.

Type: String

Valid Values: Join | Rejoin | Uplink_Data | Downlink_Data | Registration

Required: Yes

LogLevel

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

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](#)

WirelessDeviceLogOption

The log options for wireless devices and can be used to set log levels for a specific type of wireless device.

Contents

Events

The list of wireless device event log options.

Type: Array of [WirelessDeviceEventLogOption \(p. 349\)](#) objects

Required: No

LogLevel

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

Required: Yes

Type

The wireless device type.

Type: String

Valid Values: Sidewalk | LoRaWAN

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](#)

WirelessDeviceStatistics

Information about a wireless device's operation.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

DestinationName

The name of the destination to which the device is assigned.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9-_]+

Required: No

FuotaDeviceStatus

The status of a wireless device in a FUOTA task.

Type: String

Valid Values: Initial | Package_Not_Supported | FragAlgo_unsupported | Not_enough_memory | FragIndex_unsupported | Wrong_descriptor | SessionCnt_replay | MissingFrag | MemoryError | MICError | Successful

Required: No

Id

The ID of the wireless device reporting the data.

Type: String

Length Constraints: Maximum length of 256.

Required: No

LastUplinkReceivedAt

The date and time when the most recent uplink was received.

Type: String

Pattern: ^([\+\-]?d{4}(?!d{2}\b))((-?)((0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|W([0-4]\d|5[0-2])(-[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3([0-5]\d|6[1-6])))([T\s)(([01]\d|2[0-3])((:?)[0-5]\d)?|24:[?00)([\.,]\d+(?:\:)?))?)?|(\17[0-5]\d([\.,]\d+)?)?([zz]|([+\-])([01]\d|2[0-3]):?([0-5]\d)?))?)?|\$

Required: No

LoRaWAN

LoRaWAN device info.

Type: [LoRaWANListDevice \(p. 302\)](#) object

Required: No

McGroupId

Id of the multicast group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 256.

Required: No

MulticastDeviceStatus

The status of the wireless device in the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

Sidewalk

The Sidewalk account credentials.

Type: [SidewalkListDevice \(p. 338\)](#) object

Required: No

Type

The wireless device type.

Type: String

Valid Values: Sidewalk | LoRaWAN

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](#)

WirelessGatewayEventLogOption

The log options for a wireless gateway event and can be used to set log levels for a specific wireless gateway event.

For a LoRaWAN gateway, possible events for a log message are CUPS_Request and Certificate.

Contents

Event

The event for a log message, if the log message is tied to a wireless gateway.

Type: String

Valid Values: CUPS_Request | Certificate

Required: Yes

LogLevel

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

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](#)

WirelessGatewayLogOption

The log options for wireless gateways and can be used to set log levels for a specific type of wireless gateway.

Contents

Events

The list of wireless gateway event log options.

Type: Array of [WirelessGatewayEventLogOption \(p. 353\)](#) objects

Required: No

LogLevel

The log level for a log message. The log levels can be disabled, or set to ERROR to display less verbose logs containing only error information, or to INFO for more detailed logs.

Type: String

Valid Values: INFO | ERROR | DISABLED

Required: Yes

Type

The wireless gateway type.

Type: String

Valid Values: LoRaWAN

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](#)

WirelessGatewayStatistics

Information about a wireless gateway's operation.

Contents

Arn

The Amazon Resource Name of the resource.

Type: String

Required: No

Description

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Id

The ID of the wireless gateway reporting the data.

Type: String

Length Constraints: Maximum length of 256.

Required: No

LastUplinkReceivedAt

The date and time when the most recent uplink was received.

Type: String

Pattern: ^([\+-]?\d{4}(?!\d{2}\b))((-?)((0[1-9]|1[0-2])(\3([12]\d|0[1-9]|3[01]))?|W([0-4]\d|5[0-2])(-?[1-7])?|(00[1-9]|0[1-9]\d|[12]\d{2}|3[0-5]\d|6[1-6])))([T\s](([01]\d|2[0-3])((:?)|0-5]\d)?|24|:00)([\.,]\d+(?!:))?)?(\17[0-5]\d([\.,]\d+)?)([zz]|([\+-])([01]\d|2[0-3]):?([0-5]\d)?))?)?|\$

Required: No

LoRaWAN

LoRaWAN gateway info.

Type: [LoRaWANGateway \(p. 292\)](#) object

Required: No

Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

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](#)

WirelessMetadata

WirelessMetadata object.

Contents

LoRaWAN

LoRaWAN device info.

Type: [LoRaWANSendDataToDevice \(p. 307\)](#) object

Required: No

Sidewalk

The Sidewalk account credentials.

Type: [SidewalkSendDataToDevice \(p. 340\)](#) 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](#)

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'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

InvalidClientId

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

ValidationException

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

HTTP Status Code: 400