



API Reference

# AWS IoT Wireless



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# 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.

To connect to the AWS IoT Wireless Service, use the Service endpoints as described in [IoT Wireless Service endpoints](#) in the *AWS General Reference*.

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# Actions

The following actions are supported:

- [AssociateAwsAccountWithPartnerAccount](#)
- [AssociateMulticastGroupWithFuotaTask](#)
- [AssociateWirelessDeviceWithFuotaTask](#)
- [AssociateWirelessDeviceWithMulticastGroup](#)
- [AssociateWirelessDeviceWithThing](#)
- [AssociateWirelessGatewayWithCertificate](#)
- [AssociateWirelessGatewayWithThing](#)
- [CancelMulticastGroupSession](#)
- [CreateDestination](#)
- [CreateDeviceProfile](#)
- [CreateFuotaTask](#)
- [CreateMulticastGroup](#)
- [CreateNetworkAnalyzerConfiguration](#)
- [CreateServiceProfile](#)
- [CreateWirelessDevice](#)
- [CreateWirelessGateway](#)
- [CreateWirelessGatewayTask](#)
- [CreateWirelessGatewayTaskDefinition](#)
- [DeleteDestination](#)
- [DeleteDeviceProfile](#)
- [DeleteFuotaTask](#)
- [DeleteMulticastGroup](#)
- [DeleteNetworkAnalyzerConfiguration](#)
- [DeleteQueuedMessages](#)
- [DeleteServiceProfile](#)
- [DeleteWirelessDevice](#)
- [DeleteWirelessDeviceImportTask](#)



- [DeleteWirelessGateway](#)
- [DeleteWirelessGatewayTask](#)
- [DeleteWirelessGatewayTaskDefinition](#)
- [DeregisterWirelessDevice](#)
- [DisassociateAwsAccountFromPartnerAccount](#)
- [DisassociateMulticastGroupFromFuotaTask](#)
- [DisassociateWirelessDeviceFromFuotaTask](#)
- [DisassociateWirelessDeviceFromMulticastGroup](#)
- [DisassociateWirelessDeviceFromThing](#)
- [DisassociateWirelessGatewayFromCertificate](#)
- [DisassociateWirelessGatewayFromThing](#)
- [GetDestination](#)
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- [ListNetworkAnalyzerConfigurations](#)
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- [PutPositionConfiguration](#)
- [PutResourceLogLevel](#)
- [ResetAllResourceLogLevels](#)
- [ResetResourceLogLevel](#)

- [SendDataToMulticastGroup](#)
- [SendDataToWirelessDevice](#)
- [StartBulkAssociateWirelessDeviceWithMulticastGroup](#)
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- [UpdateMulticastGroup](#)
- [UpdateNetworkAnalyzerConfiguration](#)
- [UpdatePartnerAccount](#)
- [UpdatePosition](#)
- [UpdateResourceEventConfiguration](#)
- [UpdateResourcePosition](#)
- [UpdateWirelessDevice](#)
- [UpdateWirelessDeviceImportTask](#)
- [UpdateWirelessGateway](#)

# 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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Sidewalk

The Sidewalk account credentials.

Type: [SidewalkAccountInfo](#) object

Required: Yes

### Tags

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

Type: Array of [Tag](#) 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

The Amazon Resource Name of the resource.

Type: String

### Sidewalk

The Sidewalk account credentials.

Type: [SidewalkAccountInfo](#) object

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

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

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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# AssociateWirelessGatewayWithCertificate

Associates a wireless gateway with a certificate.

## Request Syntax

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

{
  "lotCertificateId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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.

### lotCertificateId

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](#)

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Description

The description of the new 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: Yes

### ExpressionType

The type of value in Expression.

Type: String

Valid Values: `RuleName` | `MqttTopic`

Required: Yes

### Name

The name of the new resource.

Type: String

Length Constraints: Maximum length of 128.

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

Required: Yes

### RoleArn

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

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

Type: Array of [Tag](#) 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

The Amazon Resource Name of the new resource.

Type: String

### Name

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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,
    "RxDrOffset1": number,
    "RxFreq2": number,
    "Supports32BitFCnt": boolean,
    "SupportsClassB": boolean,
    "SupportsClassC": boolean,
    "SupportsJoin": boolean
  },
  "Name": "string",
  "Sidewalk": {
  },
  "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### LoRaWAN

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

Type: [LoRaWANDeviceProfile](#) object

Required: No

### Name

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## Sidewalk

The Sidewalk-related information for creating the Sidewalk device profile.

Type: [SidewalkCreateDeviceProfile](#) object

Required: No

## Tags

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

Type: Array of [Tag](#) 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

The Amazon Resource Name of the new resource.

Type: String

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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",
  "FragmentIntervalMS": number,
  "FragmentSizeBytes": number,
  "LoRaWAN": {
    "RfRegion": "string"
  },
  "Name": "string",
  "RedundancyPercent": number,
  "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a

request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### FirmwareUpdateImage

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

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



## FragmentIntervalMS

The interval for sending fragments in milliseconds, rounded to the nearest second.

### Note

This interval only determines the timing for when the Cloud sends down the fragments to your device. There can be a delay for when your device will receive these fragments. This delay depends on the device's class and the communication delay with the cloud.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## FragmentSizeBytes

The size of each fragment in bytes. This parameter is supported only for FUOTA tasks with multicast groups.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## LoRaWAN

The LoRaWAN information used with a FUOTA task.

Type: [LoRaWANFuotaTask](#) object

Required: No

## Name

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## RedundancyPercent

The percentage of the added fragments that are redundant. For example, if the size of the firmware image file is 100 bytes and the fragment size is 10 bytes, with RedundancyPercent set to 50(%), the final number of encoded fragments is  $(100 / 10) + (100 / 10 * 50\%) = 15$ .

Type: Integer

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

Required: No

## Tags

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

Type: Array of [Tag](#) 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

The arn of a FUOTA task.

Type: String

Length Constraints: Maximum length of 128.

## Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreateMulticastGroup

Creates a multicast group.

## Request Syntax

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

{
  "ClientRequestToken": "string",
  "Description": "string",
  "LoRaWAN": {
    "DlClass": "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique

client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### **Description**

The description of the multicast group.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### **LoRaWAN**

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

Type: [LoRaWANMulticast](#) object

Required: Yes

### **Name**

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### **Tags**

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

Type: Array of [Tag](#) 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

The arn of the multicast group.

Type: String

Length Constraints: Maximum length of 128.

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)



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

# CreateNetworkAnalyzerConfiguration

Creates a new network analyzer configuration.

## Request Syntax

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

```
{
  "ClientRequestToken": "string",
  "Description": "string",
  "MulticastGroups": [ "string" ],
  "Name": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "TraceContent": {
    "LogLevel": "string",
    "MulticastFrameInfo": "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a

request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### MulticastGroups

Multicast Group resources to add to the network analyzer configuration. Provide the `MulticastGroupId` of the resource to add in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Maximum length of 256.

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: Yes

### Tags

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

Type: Array of [Tag](#) objects

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

Required: No

### TraceContent

Trace content for your wireless devices, gateways, and multicast groups.

Type: [TraceContent](#) object

Required: No

### WirelessDevices

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

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](#)

The Amazon Resource Name of the new resource.

Type: String

Length Constraints: Maximum length of 1124.

### [Name](#)

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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,
    "PrAllowed": boolean,
    "RaAllowed": 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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an



HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

## [LoRaWAN](#)

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

Type: [LoRaWANServiceProfile](#) object

Required: No

## [Name](#)

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## [Tags](#)

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

Type: Array of [Tag](#) 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

The Amazon Resource Name of the new resource.

Type: String

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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": {
    "Applications": [
      {
        "DestinationName": "string",
        "FPort": number,
        "Type": "string"
      }
    ]
  },
  "ClockSync": number,
```

```
    "Fuota": number,
    "Multicast": number,
    "Positioning": {
      "ClockSync": number,
      "Gnss": number,
      "Stream": number
    }
  },
  "OtaaV1_0_x": {
    "AppEui": string,
    "AppKey": string,
    "GenAppKey": string,
    "JoinEui": string
  },
  "OtaaV1_1": {
    "AppKey": string,
    "JoinEui": string,
    "NwkKey": string
  },
  "ServiceProfileId": string
},
"Name": string,
"Positioning": string,
"Sidewalk": {
  "DeviceProfileId": 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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

## Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

## DestinationName

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

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

Type: [LoRaWANDevice](#) object

Required: No

### Name

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### Positioning

FPort values for the GNSS, stream, and ClockSync functions of the positioning information.

Type: String

Valid Values: Enabled | Disabled

Required: No

### Sidewalk

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

Type: [SidewalkCreateWirelessDevice](#) object

Required: No

### Tags

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

Type: Array of [Tag](#) objects

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

Required: No

### Type

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

The Amazon Resource Name of the new resource.

Type: String

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# CreateWirelessGateway

Provisions a wireless gateway.

## Note

When provisioning a wireless gateway, you might run into duplication errors for the following reasons.

- If you specify a `GatewayEui` value that already exists.
- If you used a `ClientRequestToken` with the same parameters within the last 10 minutes.

To avoid this error, make sure that you use unique identifiers and parameters for each request within the specified time period.

## 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" ]
    ],
    "MaxEirp": number,
    "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

## LoRaWAN

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

Type: [LoRaWANGateway](#) object

Required: Yes

### Name

The name of the new resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### Tags

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

Type: Array of [Tag](#) 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

The Amazon Resource Name of the new resource.

Type: String

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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

The status of the request.

Type: String

Valid Values: PENDING | IN\_PROGRESS | FIRST\_RETRY | SECOND\_RETRY | COMPLETED  
| FAILED

### WirelessGatewayTaskDefinitionId

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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

Required: Yes

### ClientRequestToken

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### Name

The name of the new resource.

Type: String

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

Required: No

## Tags

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

Type: Array of [Tag](#) objects

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

Required: No

## Update

Information about the gateways to update.

Type: [UpdateWirelessGatewayTaskCreate](#) 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

The Amazon Resource Name of the resource.

Type: String

### Id

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# DeleteDestination

Deletes a destination.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### Name

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](#).

## **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

## **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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](#).

## **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

## **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

Length Constraints: Maximum length of 256.

Required: Yes

### MessageId

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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteWirelessDeviceImportTask

Delete an import task.

## Request Syntax

```
DELETE /wireless_device_import_task/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The unique identifier of the import task to be deleted.

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)



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

# DeleteWirelessGateway

Deletes a wireless gateway.

## Note

When deleting a wireless gateway, you might run into duplication errors for the following reasons.

- If you specify a `GatewayEui` value that already exists.
- If you used a `ClientRequestToken` with the same parameters within the last 10 minutes.

To avoid this error, make sure that you use unique identifiers and parameters for each request within the specified time period.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### Id

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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

## **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)



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

# DeregisterWirelessDevice

Deregister a wireless device from AWS IoT Wireless.

## Request Syntax

```
PATCH /wireless-devices/Identifier/deregister?WirelessDeviceType=WirelessDeviceType
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Identifier

The identifier of the wireless device to deregister from AWS IoT Wireless.

Length Constraints: Maximum length of 256.

Required: Yes

### WirelessDeviceType

The type of wireless device to deregister from AWS IoT Wireless, which can be LoRaWAN or Sidewalk.

Valid Values: Sidewalk | LoRaWAN

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# 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

The partner account ID to disassociate from the AWS account.

Length Constraints: Maximum length of 256.

Required: Yes

### PartnerType

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](#).

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# 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

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

### MulticastGroupId

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](#).

### 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 v2](#)

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

# 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

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

### WirelessDeviceId

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The ID of the multicast group.

Length Constraints: Maximum length of 256.

Required: Yes

### WirelessDeviceId

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)

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



# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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](#).

### 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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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



# 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

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

The Amazon Resource Name of the resource.

Type: String

### Description

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

### Expression

The rule name or topic rule to send messages to.

Type: String

Length Constraints: Maximum length of 2048.

### ExpressionType

The type of value in Expression.

Type: String

Valid Values: RuleName | MqttTopic

### Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 128.

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

### RoleArn

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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,
    "RxDrOffset1": number,
    "RxFreq2": number,
    "Supports32BitFCnt": boolean,
    "SupportsClassB": boolean,
    "SupportsClassC": boolean,
    "SupportsJoin": boolean
  },
  "Name": "string",
  "Sidewalk": {
    "ApplicationServerPublicKey": "string",
    "DakCertificateMetadata": [
      {
        "ApId": "string",
        "CertificateId": "string",
        "DeviceTypeId": "string",
        "FactorySupport": boolean,
        "MaxAllowedSignature": number
      }
    ],
    "QualificationStatus": boolean
  }
}

```

## 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

The Amazon Resource Name of the resource.

Type: String

### Id

The ID of the device profile.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

Information about the device profile.

Type: [LoRaWANDeviceProfile](#) object

### Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

### Sidewalk

Information about the Sidewalk parameters in the device profile.

Type: [SidewalkGetDeviceProfile](#) object

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

Resource type event configuration for the connection status event.

Type: [ConnectionStatusResourceTypeEventConfiguration](#) object

### DeviceRegistrationState

Resource type event configuration for the device registration state event.

Type: [DeviceRegistrationStateResourceTypeEventConfiguration](#) object

### Join

Resource type event configuration for the join event.

Type: [JoinResourceTypeEventConfiguration](#) object

### MessageDeliveryStatus

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

Type: [MessageDeliveryStatusResourceTypeEventConfiguration](#) object

### Proximity

Resource type event configuration for the proximity event.

Type: [ProximityResourceTypeEventConfiguration](#) object

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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",
  "FragmentIntervalMS": number,
  "FragmentSizeBytes": number,
  "Id": "string",
  "LoRaWAN": {
    "RfRegion": "string",
```

```
    "StartTime": "string"
  },
  "Name": "string",
  "RedundancyPercent": number,
  "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

The arn of a FUOTA task.

Type: String

Length Constraints: Maximum length of 128.

### CreatedAt

Created at timestamp for the resource.

Type: Timestamp

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

### FirmwareUpdateImage

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

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.

### FragmentIntervalMS

The interval for sending fragments in milliseconds, rounded to the nearest second.

#### Note

This interval only determines the timing for when the Cloud sends down the fragments to your device. There can be a delay for when your device will receive these fragments. This delay depends on the device's class and the communication delay with the cloud.

Type: Integer

Valid Range: Minimum value of 1.

### FragmentSizeBytes

The size of each fragment in bytes. This parameter is supported only for FUOTA tasks with multicast groups.

Type: Integer

Valid Range: Minimum value of 1.

### Id

The ID of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

The LoRaWAN information returned from getting a FUOTA task.

Type: [LoRaWANFuotaTaskGetInfo](#) object

### Name

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

### RedundancyPercent

The percentage of the added fragments that are redundant. For example, if the size of the firmware image file is 100 bytes and the fragment size is 10 bytes, with RedundancyPercent set to 50(%), the final number of encoded fragments is  $(100 / 10) + (100 / 10 * 50\%) = 15$ .

Type: Integer

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

### Status

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

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

The list of wireless device log options.

Type: Array of [WirelessDeviceLogOption](#) objects

### WirelessGatewayLogOptions

The list of wireless gateway log options.

Type: Array of [WirelessGatewayLogOption](#) objects

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetMetricConfiguration

Get the metric configuration status for this AWS account.

## Request Syntax

```
GET /metric-configuration 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

{
  "SummaryMetric": {
    "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.

### SummaryMetric

The configuration status of the AWS account for summary metric aggregation.

Type: [SummaryMetricConfiguration](#) object

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetMetrics

Get the summary metrics for this AWS account.

## Request Syntax

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

{
  "SummaryMetricQueries": [
    {
      "AggregationPeriod": "string",
      "Dimensions": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "EndTimeStamp": number,
      "MetricName": "string",
      "QueryId": "string",
      "StartTimeStamp": number
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### SummaryMetricQueries

The list of queries to retrieve the summary metrics.

Type: Array of [SummaryMetricQuery](#) objects

Required: No

## Response Syntax

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

{
  "SummaryMetricQueryResults": [
    {
      "AggregationPeriod": "string",
      "Dimensions": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "EndTimeStamp": number,
      "Error": "string",
      "MetricName": "string",
      "QueryId": "string",
      "QueryStatus": "string",
      "StartTimeStamp": number,
      "Timestamps": [ number ],
      "Unit": "string",
      "Values": [
        {
          "Avg": number,
          "Max": number,
          "Min": number,
          "P90": number,
          "Std": number,
          "Sum": 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.



## SummaryMetricQueryResults

The list of summary metrics that were retrieved.

Type: Array of [SummaryMetricQueryResult](#) objects

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

The arn of the multicast group.

Type: String

Length Constraints: Maximum length of 128.

### CreatedAt

Created at timestamp for the resource.

Type: Timestamp

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

### Id

The ID of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

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

Type: [LoRaWANMulticastGet](#) object

## Name

The name of the multicast group.

Type: String

Length Constraints: Maximum length of 256.

## Status

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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": {
    "DlDr": number,
    "DlFreq": number,
    "PingSlotPeriod": number,
    "SessionStartTime": "string",
    "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

The LoRaWAN information used with the multicast session.

Type: [LoRaWANMulticastSession](#) object

## Errors

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

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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",
  "MulticastGroups": [ "string" ],
  "Name": "string",
  "TraceContent": {
    "LogLevel": "string",
    "MulticastFrameInfo": "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

The Amazon Resource Name of the new resource.

Type: String

Length Constraints: Maximum length of 1124.

### Description

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

### MulticastGroups

List of multicast group resources that have been added to the network analyzer configuration.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Maximum length of 256.

### Name

Name of the network analyzer configuration.

Type: String

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

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

## TraceContent

Trace content for your wireless devices, gateways, and multicast groups.

Type: [TraceContent](#) object

## WirelessDevices

List of wireless device 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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The partner account ID to disassociate from the AWS account.

Length Constraints: Maximum length of 256.

Required: Yes

### PartnerType

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

Whether the partner account is linked to the AWS account.

Type: Boolean

### Sidewalk

The Sidewalk account credentials.

Type: [SidewalkAccountInfoWithFingerprint](#) object

## Errors

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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetPosition

*This action has been deprecated.*

Get the position information for a given resource.

## Important

This action is no longer supported. Calls to retrieve the position information should use the [GetResourcePosition](#) API operation instead.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### ResourceIdentifier

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

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

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](#) object

### Position

The position information of the resource.

Type: Array of floats

### SolverProvider

The vendor of the positioning solver.

Type: String

Valid Values: Semtech

### SolverType

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

Type: String

Valid Values: GNSS

### SolverVersion

The version of the positioning solver.

Type: String

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

### Timestamp

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]\d|6[1-6])))([T\s](((0[1]\d|2[0-3])((:?) [0-5]\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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetPositionConfiguration

*This action has been deprecated.*

Get position configuration for a given resource.

## Important

This action is no longer supported. Calls to retrieve the position configuration should use the [GetResourcePosition](#) API operation instead.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### ResourceIdentifier

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

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

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

The wrapper for the solver configuration details object.

Type: [PositionSolverDetails](#) object

## Errors

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

## **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

## **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

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



# GetPositionEstimate

Get estimated position information as a payload in GeoJSON format. The payload measurement data is resolved using solvers that are provided by third-party vendors.

## Request Syntax

```
POST /position-estimate HTTP/1.1
```

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

```
{
  "CellTowers": {
    "Cdma": [
      {
        "BaseLat": number,
        "BaseLng": number,
        "BaseStationId": number,
        "CdmaLocalId": {
          "CdmaChannel": number,
          "PnOffset": number
        },
        "CdmaNmr": [
          {
            "BaseStationId": number,
            "CdmaChannel": number,
            "PilotPower": number,
            "PnOffset": number
          }
        ],
        "NetworkId": number,
        "PilotPower": number,
        "RegistrationZone": number,
        "SystemId": number
      }
    ],
    "Gsm": [
      {
        "GeranCid": number,
        "GsmLocalId": {
          "Bcch": number,
          "Bsic": number
        },
        "GsmNmr": [
```

```

        {
            "Bcch": number,
            "Bsic": number,
            "GlobalIdentity": {
                "GeranCid": number,
                "Lac": number
            },
            "RxLevel": number
        }
    ],
    "GsmTimingAdvance": number,
    "Lac": number,
    "Mcc": number,
    "Mnc": number,
    "RxLevel": number
}
],
"Lte": [
    {
        "EutranCid": number,
        "LteLocalId": {
            "Earfcn": number,
            "Pci": number
        },
    },
    "LteNmr": [
        {
            "Earfcn": number,
            "EutranCid": number,
            "Pci": number,
            "Rsrp": number,
            "Rsrq": number
        }
    ],
    "LteTimingAdvance": number,
    "Mcc": number,
    "Mnc": number,
    "NrCapable": boolean,
    "Rsrp": number,
    "Rsrq": number,
    "Tac": number
}
],
"Tdscdma": [
    {

```

```

    "Lac": number,
    "Mcc": number,
    "Mnc": number,
    "PathLoss": number,
    "Rscp": number,
    "TdscdmaLocalId": {
      "CellParams": number,
      "Uarfcn": number
    },
    "TdscdmaNmr": [
      {
        "CellParams": number,
        "PathLoss": number,
        "Rscp": number,
        "Uarfcn": number,
        "UtranCid": number
      }
    ],
    "TdscdmaTimingAdvance": number,
    "UtranCid": number
  }
],
"Wcdma": [
  {
    "Lac": number,
    "Mcc": number,
    "Mnc": number,
    "PathLoss": number,
    "Rscp": number,
    "UtranCid": number,
    "WcdmaLocalId": {
      "Psc": number,
      "Uarfcndl": number
    },
    "WcdmaNmr": [
      {
        "PathLoss": number,
        "Psc": number,
        "Rscp": number,
        "Uarfcndl": number,
        "UtranCid": number
      }
    ]
  }
]
}

```

```
    ]
  },
  "Gnss": {
    "AssistAltitude": number,
    "AssistPosition": [ number ],
    "CaptureTime": number,
    "CaptureTimeAccuracy": number,
    "Payload": "string",
    "Use2DSolver": boolean
  },
  "Ip": {
    "IpAddress": "string"
  },
  "Timestamp": number,
  "WiFiAccessPoints": [
    {
      "MacAddress": "string",
      "Rss": number
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### CellTowers

Retrieves an estimated device position by resolving measurement data from cellular radio towers. The position is resolved using HERE's cellular-based solver.

Type: [CellTowers](#) object

Required: No

### Gnss

Retrieves an estimated device position by resolving the global navigation satellite system (GNSS) scan data. The position is resolved using the GNSS solver powered by LoRa Cloud.

Type: [Gnss](#) object

Required: No

## [Ip](#)

Retrieves an estimated device position by resolving the IP address information from the device. The position is resolved using MaxMind's IP-based solver.

Type: [Ip](#) object

Required: No

## [Timestamp](#)

Optional information that specifies the time when the position information will be resolved. It uses the Unix timestamp format. If not specified, the time at which the request was received will be used.

Type: Timestamp

Required: No

## [WiFiAccessPoints](#)

Retrieves an estimated device position by resolving WLAN measurement data. The position is resolved using HERE's Wi-Fi based solver.

Type: Array of [WiFiAccessPoint](#) objects

Required: No

## Response Syntax

```
HTTP/1.1 200
```

```
GeoJsonPayload
```

## Response Elements

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

The response returns the following as the HTTP body.

### GeoJsonPayload

The position information of the resource, displayed as a JSON payload. The payload is of type blob and uses the [GeoJSON](#) format, which is a format that's used to encode geographic data structures. A sample payload contains the timestamp information, the WGS84 coordinates of the location, and the accuracy and confidence level. For more information and examples, see [Resolve device location \(console\)](#).

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

Resource identifier to opt in for event messaging.

Length Constraints: Maximum length of 256.

Required: Yes

### IdentifierType

Identifier type of the particular resource identifier for event configuration.

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

Required: Yes

### PartnerType

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

Event configuration for the connection status event.

Type: [ConnectionStatusEventConfiguration](#) object

### [DeviceRegistrationState](#)

Event configuration for the device registration state event.

Type: [DeviceRegistrationStateEventConfiguration](#) object

### [Join](#)

Event configuration for the join event.

Type: [JoinEventConfiguration](#) object

### [MessageDeliveryStatus](#)

Event configuration for the message delivery status event.

Type: [MessageDeliveryStatusEventConfiguration](#) object

### [Proximity](#)

Event configuration for the proximity event.

Type: [ProximityEventConfiguration](#) object

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetResourcePosition

Get the position information for a given wireless device or a wireless gateway resource. The position information uses the [World Geodetic System \(WGS84\)](#).

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### ResourceIdentifier

The identifier of the resource for which position information is retrieved. It can be the wireless device ID or the wireless gateway ID, depending on the resource type.

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

The type of resource for which position information is retrieved, which can be a wireless device or a wireless gateway.

Valid Values: `WirelessDevice` | `WirelessGateway`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## *GeoJsonPayload*

## Response Elements

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

The response returns the following as the HTTP body.

### GeoJsonPayload

The position information of the resource, displayed as a JSON payload. The payload uses the GeoJSON format, which is a format that's used to encode geographic data structures. For more information, see [GeoJSON](#).

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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,}`

### ServiceEndpoint

The service endpoint value.

Type: String

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

### ServiceType

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

The Amazon Resource Name of the resource.

Type: String

### Id

The ID of the service profile.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

Information about the service profile.

Type: [LoRaWANGetServiceProfileInfo](#) object

### Name

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

The identifier of the wireless device to get.

Length Constraints: Maximum length of 256.

Required: Yes

### IdentifierType

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",
      "NwkSEncKey": "string",
      "SNwkSIntKey": "string"
    }
  },
  "DevEui": "string",
  "DeviceProfileId": "string",
  "FPorts": {
    "Applications": [
      {
        "DestinationName": "string",
        "FPort": number,
        "Type": "string"
      }
    ],
    "ClockSync": number,
    "Fuota": number,
    "Multicast": number,
    "Positioning": {
      "ClockSync": number,
      "Gnss": number,
      "Stream": number
    }
  },
  "OtaaV1_0_x": {
    "AppEui": "string",
    "AppKey": "string",
    "GenAppKey": "string",
    "JoinEui": "string"
  }
}

```

```
    },
    "OtaaV1_1": {
      "AppKey": "string",
      "JoinEui": "string",
      "NwkKey": "string"
    },
    "ServiceProfileId": "string"
  },
  "Name": "string",
  "Positioning": "string",
  "Sidewalk": {
    "AmazonId": "string",
    "CertificateId": "string",
    "DeviceCertificates": [
      {
        "SigningAlg": "string",
        "Value": "string"
      }
    ],
    "DeviceProfileId": "string",
    "PrivateKeys": [
      {
        "SigningAlg": "string",
        "Value": "string"
      }
    ],
    "SidewalkId": "string",
    "SidewalkManufacturingSn": "string",
    "Status": "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

The Amazon Resource Name of the resource.

Type: String

### Description

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

### 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- \_]+

### Id

The ID of the wireless device.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

Information about the wireless device.

Type: [LoRaWANDevice](#) object

### Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

### Positioning

FPort values for the GNSS, stream, and ClockSync functions of the positioning information.

Type: String

Valid Values: Enabled | Disabled

### Sidewalk

Sidewalk device object.

Type: [SidewalkDevice](#) object

### ThingArn

The ARN of the thing associated with the wireless device.

Type: String

### ThingName

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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetWirelessDeviceImportTask

Get information about an import task and count of device onboarding summary information for the import task.

## Request Syntax

```
GET /wireless_device_import_task/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the import task for which information is requested.

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",
  "CreationTime": "string",
  "DestinationName": "string",
  "FailedImportedDeviceCount": number,
  "Id": "string",
  "InitializedImportedDeviceCount": number,
  "OnboardedImportedDeviceCount": number,
  "PendingImportedDeviceCount": number,
  "Sidewalk": {
```

```
    "DeviceCreationFileList": [ "string" ],
    "Role": "string"
  },
  "Status": "string",
  "StatusReason": "string"
}
```

## Response Elements

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

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

### Arn

The ARN (Amazon Resource Name) of the import task.

Type: String

Length Constraints: Maximum length of 128.

### CreationTime

The time at which the import task was created.

Type: Timestamp

### DestinationName

The name of the destination that's assigned to the wireless devices in the import task.

Type: String

Length Constraints: Maximum length of 128.

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

### FailedImportedDeviceCount

The number of devices in the import task that failed to onboard to the import task.

Type: Long

### Id

The identifier of the import task for which information is retrieved.



Type: String

Length Constraints: Maximum length of 256.

### InitializedImportedDeviceCount

The number of devices in the import task that are waiting for the control log to start processing.

Type: Long

### OnboardedImportedDeviceCount

The number of devices in the import task that have been onboarded to the import task.

Type: Long

### PendingImportedDeviceCount

The number of devices in the import task that are waiting in the import task queue to be onboarded.

Type: Long

### Sidewalk

The Sidewalk-related information about an import task.

Type: [SidewalkGetStartImportInfo](#) object

### Status

The import task status.

Type: String

Valid Values: INITIALIZING | INITIALIZED | PENDING | COMPLETE | FAILED | DELETING

### StatusReason

The reason for the provided status information, such as a validation error that causes the import task to fail.

Type: String

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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
      }
    ]
  }
}
```

```

    }
  ],
  "PublicGateways": [
    {
      "DlAllowed": boolean,
      "Id": "string",
      "ProviderNetId": "string",
      "RfRegion": "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

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

#### Note

This value is only valid for 3 months.

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

Information about the wireless device's operations.

Type: [LoRaWANDeviceMetadata](#) object

## Sidewalk

MetaData for Sidewalk device.

Type: [SidewalkDeviceMetadata](#) object

## WirelessDeviceId

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The identifier of the wireless gateway to get.

Length Constraints: Maximum length of 256.

Required: Yes

### IdentifierType

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" ]
  ],
  "MaxEirp": number,
  "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

The Amazon Resource Name of the resource.

Type: String

### Description

The description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

### Id

The ID of the wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

### LoRaWAN

Information about the wireless gateway.

Type: [LoRaWANGateway](#) object

### Name

The name of the resource.

Type: String

Length Constraints: Maximum length of 256.

### ThingArn

The ARN of the thing associated with the wireless gateway.

Type: String

### ThingName

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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.

## lotCertificateId

The ID of the certificate associated with the wireless gateway.

Type: String

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

## LoRaWANNetworkServerCertificateId

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

Information about the wireless gateway's firmware.

Type: [LoRaWANGatewayCurrentVersion](#) object

## Errors

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

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

The connection status of the wireless gateway.

Type: String

Valid Values: Connected | Disconnected

## LastUplinkReceivedAt

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

### Note

This value is only valid for 3 months.

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](((0[1]\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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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

#### Note

This value is only valid for 3 months.

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](((0[1]\d|2[0-3])((:)?[0-5]\d)?|24\?:?00)([\.,]\d+(?!:))?)?(\17[0-5]\d([\.,]\d+)?)?([zZ]|([\+-])([01]\d|2[0-3]))?:?([0-5]\d)?)?)?$`

### Status

The status of the request.

Type: String

Valid Values: PENDING | IN\_PROGRESS | FIRST\_RETRY | SECOND\_RETRY | COMPLETED  
| FAILED

### TaskCreatedAt

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](((0[1]\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

The ID of the wireless gateway.

Type: String

Length Constraints: Maximum length of 256.

### WirelessGatewayTaskDefinitionId

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

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

The Amazon Resource Name of the resource.

Type: String

### AutoCreateTasks

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

The name of the resource.

Type: String

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

## Update

Information about the gateways to update.

Type: [UpdateWirelessGatewayTaskCreate](#) object

## Errors

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

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

The list of destinations.

Type: Array of [Destinations](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDeviceProfiles

Lists the device profiles registered to your AWS account.

## Request Syntax

```
GET /device-profiles?  
deviceProfileType=DeviceProfileType&maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DeviceProfileType

A filter to list only device profiles that use this type, which can be LoRaWAN or Sidewalk.

Valid Values: Sidewalk | LoRaWAN

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

The list of device profiles.

Type: Array of [DeviceProfile](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListDevicesForWirelessDeviceImportTask

List the Sidewalk devices in an import task and their onboarding status.

## Request Syntax

```
GET /wireless_device_import_task?  
id=Id&maxResults=MaxResults&nextToken=NextToken&status=Status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the import task for which wireless devices are listed.

Length Constraints: Maximum length of 256.

Required: Yes

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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.

### Status

The status of the devices in the import task.

Valid Values: INITIALIZED | PENDING | ONBOARDED | FAILED

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "DestinationName": "string",
  "ImportedWirelessDeviceList": [
    {
      "Sidewalk": {
        "LastUpdateTime": "string",
        "OnboardingStatus": "string",
        "OnboardingStatusReason": "string",
        "SidewalkManufacturingSn": "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.

### [DestinationName](#)

The name of the Sidewalk destination that describes the IoT rule to route messages received from devices in an import task that are onboarded to AWS IoT Wireless.

Type: String

Length Constraints: Maximum length of 128.

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

### [ImportedWirelessDeviceList](#)

List of wireless devices in an import task and their onboarding status.

Type: Array of [ImportedWirelessDevice](#) objects

## **NextToken**

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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

Event configurations of all events for a single resource.

Type: Array of [EventConfigurationItem](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

Lists the FUOTA tasks registered to your AWS account.

Type: Array of [FuotaTask](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

List of multicast groups.

Type: Array of [MulticastGroup](#) objects

### NextToken

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

Required: Yes

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

List of multicast groups associated with a FUOTA task.

Type: Array of [MulticastGroupByFuotaTask](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

The list of network analyzer configurations.

Type: Array of [NetworkAnalyzerConfigurations](#) objects

### NextToken

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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

The Sidewalk account credentials.

Type: Array of [SidewalkAccountInfoWithFingerprint](#) objects

## Errors

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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListPositionConfigurations

*This action has been deprecated.*

List position configurations for a given resource, such as positioning solvers.

## Important

This action is no longer supported. Calls to retrieve position information should use the [GetResourcePosition](#) API operation instead.

## 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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

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](#)

A list of position configurations.

Type: Array of [PositionConfigurationItem](#) objects

## Errors

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

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The ID of a given wireless device which the downlink message packets are being sent.

Length Constraints: Maximum length of 256.

Required: Yes

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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/1.1 200
Content-type: application/json

{
  "DownlinkQueueMessagesList": [
    {
      "LoRaWAN": {
        "FPort": number,
        "ParticipatingGateways": {
          "DownlinkMode": "string",
          "GatewayList": [
            {
              "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

The messages in the downlink queue.

Type: Array of [DownlinkQueueMessage](#) objects

## **NextToken**

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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

The list of service profiles.

Type: Array of [ServiceProfile](#) objects

## Errors

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

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags (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

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

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

Type: Array of [Tag](#) 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](#).

### **ConflictException**

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

HTTP Status Code: 409

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListWirelessDeviceImportTasks

List wireless devices that have been added to an import task.

## Request Syntax

```
GET /wireless_device_import_tasks?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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",
  "WirelessDeviceImportTaskList": [
    {
      "Arn": "string",
      "CreationTime": "string",
      "DestinationName": "string",
```



```
    "FailedImportedDeviceCount": number,
    "Id": "string",
    "InitializedImportedDeviceCount": number,
    "OnboardedImportedDeviceCount": number,
    "PendingImportedDeviceCount": number,
    "Sidewalk": {
      "DeviceCreationFileList": [ "string" ],
      "Role": "string"
    },
    "Status": "string",
    "StatusReason": "string"
  }
]
}
```

## Response Elements

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

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

### NextToken

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.

### WirelessDeviceImportTaskList

List of import tasks and summary information of onboarding status of devices in each import task.

Type: Array of [WirelessDeviceImportTask](#) objects

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# ListWirelessDevices

Lists the wireless devices registered to your AWS account.

## Request Syntax

```
GET /wireless-devices?  
destinationName=DestinationName&deviceProfileId=DeviceProfileId&fuotaTaskId=FuotaTaskId&maxResu  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### DestinationName

A filter to list only the wireless devices that use this destination.

Length Constraints: Maximum length of 128.

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

### DeviceProfileId

A filter to list only the wireless devices that use this device profile.

Length Constraints: Maximum length of 256.

### FuotaTaskId

The ID of a FUOTA task.

Length Constraints: Maximum length of 256.

### MaxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### MulticastGroupId

The ID of the multicast group.

Length Constraints: Maximum length of 256.

### NextToken

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

A filter to list only the wireless devices that use this service profile.

Length Constraints: Maximum length of 256.

### WirelessDeviceType

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"
    }
  ],
  "DeviceProfileId": "string",
  "SidewalkId": "string",
  "SidewalkManufacturingSn": "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

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

The ID of the wireless device.

Type: Array of [WirelessDeviceStatistics](#) objects

## Errors

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

## AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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" ]
      ],
      "MaxEirp": number,
      "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

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

The ID of the wireless gateway.

Type: Array of [WirelessGatewayStatistics](#) objects

## Errors

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

## AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The maximum number of results to return in this operation.

Valid Range: Minimum value of 0. Maximum value of 250.

### NextToken

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

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

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

The list of task definitions.

Type: Array of [UpdateWirelessGatewayTaskEntry](#) objects

## Errors

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

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# PutPositionConfiguration

*This action has been deprecated.*

Put position configuration for a given resource.

## Important

This action is no longer supported. Calls to update the position configuration should use the [UpdateResourcePosition](#) API operation instead.

## 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](#)

Resource identifier used to update the position configuration.

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

Required: Yes

## ResourceType

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

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

The positioning solvers used to update the position configuration of the resource.

Type: [PositionSolverConfigurations](#) 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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)

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

# 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

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

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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)

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

# 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

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

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

Wireless metadata that is to be sent to multicast group.

Type: [MulticastWirelessMetadata](#) 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

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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

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

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

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

Metadata about the message request.

Type: [WirelessMetadata](#) 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

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

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

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

Type: Array of [Tag](#) 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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartBulkDisassociateWirelessDeviceFromMulticastGroup

Starts a bulk disassociation 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

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

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

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

Type: Array of [Tag](#) 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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# StartFuotaTask

Starts a FUOTA task.

## Request Syntax

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

{
  "LoRaWAN": {
    "StartTime": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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

The LoRaWAN information used to start a FUOTA task.

Type: [LoRaWANStartFuotaTask](#) 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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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,  
    "PingSlotPeriod": number,  
    "SessionStartTime": "string",  
    "SessionTimeout": number  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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

The LoRaWAN information used with the multicast session.

Type: [LoRaWANMulticastSession](#) 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](#).

### 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

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartSingleWirelessDeviceImportTask

Start import task for a single wireless device.

## Request Syntax

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

```
{
  "ClientRequestToken": "string",
  "DestinationName": "string",
  "DeviceName": "string",
  "Sidewalk": {
    "SidewalkManufacturingSn": "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### DestinationName

The name of the Sidewalk destination that describes the IoT rule to route messages from the device in the import task that will be onboarded to AWS IoT Wireless.

Type: String

Length Constraints: Maximum length of 128.

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

Required: Yes

### DeviceName

The name of the wireless device for which an import task is being started.

Type: String

Required: No

### Sidewalk

The Sidewalk-related parameters for importing a single wireless device.

Type: [SidewalkSingleStartImportInfo](#) object

Required: Yes

### Tags

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

Type: Array of [Tag](#) 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

The ARN (Amazon Resource Name) of the import task.

Type: String

Length Constraints: Maximum length of 128.

### Id

The import task ID.

Type: String

Length Constraints: Maximum length of 256.

## Errors

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

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# StartWirelessDeviceImportTask

Start import task for provisioning Sidewalk devices in bulk using an S3 CSV file.

## Request Syntax

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

```
{
  "ClientRequestToken": "string",
  "DestinationName": "string",
  "Sidewalk": {
    "DeviceCreationFile": "string",
    "Role": "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

Each resource must have a unique client request token. The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you try to create a new resource using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request. For more information about idempotency, see [Ensuring idempotency in Amazon EC2 API requests](#).

Type: String

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

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

Required: No

### DestinationName

The name of the Sidewalk destination that describes the IoT rule to route messages from the devices in the import task that are onboarded to AWS IoT Wireless.

Type: String

Length Constraints: Maximum length of 128.

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

Required: Yes

### Sidewalk

The Sidewalk-related parameters for importing wireless devices that need to be provisioned in bulk.

Type: [SidewalkStartImportInfo](#) object

Required: Yes

### Tags

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

Type: Array of [Tag](#) 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

The ARN (Amazon Resource Name) of the import task.

Type: String

Length Constraints: Maximum length of 128.

### Id

The import task ID.

Type: String

Length Constraints: Maximum length of 256.

## Errors

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

### **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

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Adds 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

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

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](#) 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](#).

### 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

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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**

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](#).

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes 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

The ARN of the resource to remove tags from.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

### TagKeys

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](#).

### ConflictException

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

HTTP Status Code: 409

### InternalServerErrorException

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 v2](#)

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



# 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

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

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### Expression

The new 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

### 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

## 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](#).

## AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

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

# 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

Connection status resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [ConnectionStatusResourceTypeEventConfiguration](#) object

Required: No

### DeviceRegistrationState

Device registration state resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [DeviceRegistrationStateResourceTypeEventConfiguration](#) object

Required: No

### Join

Join resource type event configuration object for enabling and disabling wireless device topic.

Type: [JoinResourceTypeEventConfiguration](#) object

Required: No

### MessageDeliveryStatus

Message delivery status resource type event configuration object for enabling and disabling wireless device topic.

Type: [MessageDeliveryStatusResourceTypeEventConfiguration](#) object

Required: No

### Proximity

Proximity resource type event configuration object for enabling and disabling wireless gateway topic.

Type: [ProximityResourceTypeEventConfiguration](#) 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](#).

### 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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# 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",
  "FragmentIntervalMS": number,
  "FragmentSizeBytes": number,
  "LoRaWAN": {
    "RfRegion": "string"
  },
  "Name": "string",
  "RedundancyPercent": number
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### FirmwareUpdateImage

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

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

### FragmentIntervalMS

The interval for sending fragments in milliseconds, rounded to the nearest second.

#### **Note**

This interval only determines the timing for when the Cloud sends down the fragments to your device. There can be a delay for when your device will receive these fragments. This delay depends on the device's class and the communication delay with the cloud.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### FragmentSizeBytes

The size of each fragment in bytes. This parameter is supported only for FUOTA tasks with multicast groups.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### LoRaWAN

The LoRaWAN information used with a FUOTA task.

Type: [LoRaWANFuotaTask](#) object

Required: No

### Name

The name of a FUOTA task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### RedundancyPercent

The percentage of the added fragments that are redundant. For example, if the size of the firmware image file is 100 bytes and the fragment size is 10 bytes, with RedundancyPercent set to 50(%), the final number of encoded fragments is  $(100 / 10) + (100 / 10 * 50\%) = 15$ .

Type: Integer

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

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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

The list of wireless device log options.

Type: Array of [WirelessDeviceLogOption](#) objects

Required: No

### WirelessGatewayLogOptions

The list of wireless gateway log options.

Type: Array of [WirelessGatewayLogOption](#) 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](#).

## **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

## **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateMetricConfiguration

Update the summary metric configuration.

## Request Syntax

```
PUT /metric-configuration HTTP/1.1
Content-type: application/json

{
  "SummaryMetric": {
    "Status": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### SummaryMetric

The value to be used to set summary metric configuration.

Type: [SummaryMetricConfiguration](#) 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](#).

### **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

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

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

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

## LoRaWAN

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

Type: [LoRaWANMulticast](#) object

Required: No

## Name

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](#).

### **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

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateNetworkAnalyzerConfiguration

Update network analyzer configuration.

## Request Syntax

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

```
{
  "Description": "string",
  "MulticastGroupsToAdd": [ "string" ],
  "MulticastGroupsToRemove": [ "string" ],
  "TraceContent": {
    "LogLevel": "string",
    "MulticastFrameInfo": "string",
    "WirelessDeviceFrameInfo": "string"
  },
  "WirelessDevicesToAdd": [ "string" ],
  "WirelessDevicesToRemove": [ "string" ],
  "WirelessGatewaysToAdd": [ "string" ],
  "WirelessGatewaysToRemove": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### ConfigurationName

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

The description of the new resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

## MulticastGroupsToAdd

Multicast group resources to add to the network analyzer configuration. Provide the `MulticastGroupId` of the resource to add in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Maximum length of 256.

Required: No

## MulticastGroupsToRemove

Multicast group resources to remove from the network analyzer configuration. Provide the `MulticastGroupId` of the resources to remove in the input array.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Length Constraints: Maximum length of 256.

Required: No

## TraceContent

Trace content for your wireless devices, gateways, and multicast groups.

Type: [TraceContent](#) object

Required: No

### WirelessDevicesToAdd

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

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

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

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](#).

### AccessDeniedException

User does not have permission to perform this action.

HTTP Status Code: 403

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

The ID of the partner account to update.

Length Constraints: Maximum length of 256.

Required: Yes

### PartnerType

The partner type.

Valid Values: Sidewalk

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Sidewalk

The Sidewalk account credentials.

Type: [SidewalkUpdateAccount](#) 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](#).

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdatePosition

*This action has been deprecated.*

Update the position information of a resource.

## Important

This action is no longer supported. Calls to update the position information should use the [UpdateResourcePosition](#) API operation instead.

## 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

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

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

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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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

Resource identifier to opt in for event messaging.

Length Constraints: Maximum length of 256.

Required: Yes

### IdentifierType

Identifier type of the particular resource identifier for event configuration.

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

Required: Yes

### PartnerType

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

Event configuration for the connection status event.

Type: [ConnectionStatusEventConfiguration](#) object

Required: No

### DeviceRegistrationState

Event configuration for the device registration state event.

Type: [DeviceRegistrationStateEventConfiguration](#) object

Required: No

### Join

Event configuration for the join event.

Type: [JoinEventConfiguration](#) object

Required: No

### MessageDeliveryStatus

Event configuration for the message delivery status event.

Type: [MessageDeliveryStatusEventConfiguration](#) object

Required: No

### Proximity

Event configuration for the proximity event.

Type: [ProximityEventConfiguration](#) 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](#).

### **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

## InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

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

# UpdateResourcePosition

Update the position information of a given wireless device or a wireless gateway resource. The position coordinates are based on the [World Geodetic System \(WGS84\)](#).

## Request Syntax

```
PATCH /resource-positions/ResourceIdentifier?resourceType=ResourceType HTTP/1.1
```

*GeoJsonPayload*

## URI Request Parameters

The request uses the following URI parameters.

### ResourceIdentifier

The identifier of the resource for which position information is updated. It can be the wireless device ID or the wireless gateway ID, depending on the resource type.

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

The type of resource for which position information is updated, which can be a wireless device or a wireless gateway.

Valid Values: `WirelessDevice` | `WirelessGateway`

Required: Yes

## Request Body

The request accepts the following binary data.



## GeoJsonPayload

The position information of the resource, displayed as a JSON payload. The payload uses the GeoJSON format, which is a format that's used to encode geographic data structures. For more information, see [GeoJSON](#).

## 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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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": {
      "Applications": [
        {
          "DestinationName": "string",
          "FPort": number,
          "Type": "string"
        }
      ],
      "Positioning": {
        "ClockSync": number,
        "Gnss": number,
        "Stream": number
      }
    },
    "ServiceProfileId": "string"
  },
  "Name": "string",
  "Positioning": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### DestinationName

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

The updated wireless device's configuration.

Type: [LoRaWANUpdateDevice](#) object

Required: No

### Name

The new name of the resource.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### Positioning

FPort values for the GNSS, stream, and ClockSync functions of the positioning information.

Type: String

Valid Values: Enabled | Disabled

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](#).

### **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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateWirelessDeviceImportTask

Update an import task to add more devices to the task.

## Request Syntax

```
PATCH /wireless_device_import_task/Id HTTP/1.1
Content-type: application/json

{
  "Sidewalk": {
    "DeviceCreationFile": "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The identifier of the import task to be updated.

Length Constraints: Maximum length of 256.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Sidewalk

The Sidewalk-related parameters of the import task to be updated.

Type: [SidewalkUpdateImportInfo](#) 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](#).

### 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

### InternalServerErrorException

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateWirelessGateway

Updates properties of a wireless gateway.

## Request Syntax

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

```
{  
  "Description": "string",  
  "JoinEuiFilters": [  
    [ "string" ]  
  ],  
  "MaxEirp": number,  
  "Name": "string",  
  "NetIdFilters": [ "string" ]  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

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

A new description of the resource.

Type: String

Length Constraints: Maximum length of 2048.

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

### MaxEirp

The MaxEIRP value.

Type: Float

Valid Range: Minimum value of 0. Maximum value of 30.

Required: No

### Name

The new name of the resource.

Type: String

Length Constraints: Maximum length of 256.

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

## 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](#).

### **AccessDeniedException**

User does not have permission to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS 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](#)
- [AbpV1\\_1](#)
- [Accuracy](#)
- [ApplicationConfig](#)
- [Beaconing](#)
- [CdmaLocalId](#)
- [CdmaNmrObj](#)
- [CdmaObj](#)
- [CellTowers](#)
- [CertificateList](#)
- [ConnectionStatusEventConfiguration](#)
- [ConnectionStatusResourceTypeEventConfiguration](#)
- [DakCertificateMetadata](#)
- [Destinations](#)
- [DeviceProfile](#)
- [DeviceRegistrationStateEventConfiguration](#)
- [DeviceRegistrationStateResourceTypeEventConfiguration](#)
- [Dimension](#)
- [DownlinkQueueMessage](#)
- [EventConfigurationItem](#)

- [EventNotificationItemConfigurations](#)
- [FPorts](#)
- [FuotaTask](#)
- [GatewayListItem](#)
- [GlobalIdentity](#)
- [Gnss](#)
- [GsmLocalId](#)
- [GsmNmrObj](#)
- [GsmObj](#)
- [ImportedSidewalkDevice](#)
- [ImportedWirelessDevice](#)
- [Ip](#)
- [JoinEventConfiguration](#)
- [JoinResourceTypeEventConfiguration](#)
- [LoRaWANConnectionStatusEventNotificationConfigurations](#)
- [LoRaWANConnectionStatusResourceTypeEventConfiguration](#)
- [LoRaWANDevice](#)
- [LoRaWANDeviceMetadata](#)
- [LoRaWANDeviceProfile](#)
- [LoRaWANFuotaTask](#)
- [LoRaWANFuotaTaskGetInfo](#)
- [LoRaWANGateway](#)
- [LoRaWANGatewayCurrentVersion](#)
- [LoRaWANGatewayMetadata](#)
- [LoRaWANGatewayVersion](#)
- [LoRaWANGetServiceProfileInfo](#)
- [LoRaWANJoinEventNotificationConfigurations](#)
- [LoRaWANJoinResourceTypeEventConfiguration](#)
- [LoRaWANListDevice](#)
- [LoRaWANMulticast](#)

- [LoRaWANMulticastGet](#)
- [LoRaWANMulticastMetadata](#)
- [LoRaWANMulticastSession](#)
- [LoRaWANPublicGatewayMetadata](#)
- [LoRaWANSendDataToDevice](#)
- [LoRaWANServiceProfile](#)
- [LoRaWANStartFuotaTask](#)
- [LoRaWANUpdateDevice](#)
- [LoRaWANUpdateGatewayTaskCreate](#)
- [LoRaWANUpdateGatewayTaskEntry](#)
- [LteLocalId](#)
- [LteNmrObj](#)
- [LteObj](#)
- [MessageDeliveryStatusEventConfiguration](#)
- [MessageDeliveryStatusResourceTypeEventConfiguration](#)
- [MetricQueryValue](#)
- [MulticastGroup](#)
- [MulticastGroupByFuotaTask](#)
- [MulticastWirelessMetadata](#)
- [NetworkAnalyzerConfigurations](#)
- [OtaaV1\\_0\\_x](#)
- [OtaaV1\\_1](#)
- [ParticipatingGateways](#)
- [PositionConfigurationItem](#)
- [Positioning](#)
- [PositionSolverConfigurations](#)
- [PositionSolverDetails](#)
- [ProximityEventConfiguration](#)
- [ProximityResourceTypeEventConfiguration](#)
- [SemtechGnssConfiguration](#)



- [SemtechGnssDetail](#)
- [ServiceProfile](#)
- [SessionKeysAbpV1\\_0\\_x](#)
- [SessionKeysAbpV1\\_1](#)
- [SidewalkAccountInfo](#)
- [SidewalkAccountInfoWithFingerprint](#)
- [SidewalkCreateDeviceProfile](#)
- [SidewalkCreateWirelessDevice](#)
- [SidewalkDevice](#)
- [SidewalkDeviceMetadata](#)
- [SidewalkEventNotificationConfigurations](#)
- [SidewalkGetDeviceProfile](#)
- [SidewalkGetStartImportInfo](#)
- [SidewalkListDevice](#)
- [SidewalkResourceTypeEventConfiguration](#)
- [SidewalkSendDataToDevice](#)
- [SidewalkSingleStartImportInfo](#)
- [SidewalkStartImportInfo](#)
- [SidewalkUpdateAccount](#)
- [SidewalkUpdateImportInfo](#)
- [SummaryMetricConfiguration](#)
- [SummaryMetricQuery](#)
- [SummaryMetricQueryResult](#)
- [Tag](#)
- [TdscdmaLocalId](#)
- [TdscdmaNmrObj](#)
- [TdscdmaObj](#)
- [TraceContent](#)
- [UpdateAbpV1\\_0\\_x](#)
- [UpdateAbpV1\\_1](#)

- [UpdateFPorts](#)
- [UpdateWirelessGatewayTaskCreate](#)
- [UpdateWirelessGatewayTaskEntry](#)
- [WcdmaLocalId](#)
- [WcdmaNmrObj](#)
- [WcdmaObj](#)
- [WiFiAccessPoint](#)
- [WirelessDeviceEventLogOption](#)
- [WirelessDeviceImportTask](#)
- [WirelessDeviceLogOption](#)
- [WirelessDeviceStatistics](#)
- [WirelessGatewayEventLogOption](#)
- [WirelessGatewayLogOption](#)
- [WirelessGatewayStatistics](#)
- [WirelessMetadata](#)

# 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](#) object

Required: No

## See Also

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

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



# 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](#) object

Required: No

## See Also

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

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



# 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, which is the difference between the estimated location and the actual device location.

Type: Float

Valid Range: Minimum value of 0.

Required: No

### VerticalAccuracy

The vertical accuracy of the estimated position, which is the difference between the estimated altitude and actual device latitude 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

# ApplicationConfig

LoRaWAN application configuration, which can be used to perform geolocation.

## Contents

### DestinationName

The name of 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

### FPort

The Fport value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 223.

Required: No

### Type

Application type, which can be specified to obtain real-time position information of your LoRaWAN device.

Type: String

Valid Values: SemtechGeolocation

Required: No

## See Also

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



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

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

# CdmaLocalId

CDMA local ID information, which corresponds to the local identification parameters of a CDMA cell.

## Contents

### CdmaChannel

CDMA channel information.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 4095.

Required: Yes

### PnOffset

Pseudo-noise offset, which is a characteristic of the signal from a cell on a radio tower.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 511.

Required: Yes

## See Also

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

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

# CdmaNmrObj

CDMA object for network measurement reports.

## Contents

### CdmaChannel

CDMA channel information.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 4095.

Required: Yes

### PnOffset

Pseudo-noise offset, which is a characteristic of the signal from a cell on a radio tower.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 511.

Required: Yes

### BaseStationId

CDMA base station ID (BSID).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

### PilotPower

Transmit power level of the pilot signal, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -142. Maximum value of -49.

Required: No

## See Also

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

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

# CdmaObj

CDMA (Code-division multiple access) object.

## Contents

### BaseStationId

CDMA base station ID (BSID).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: Yes

### NetworkId

CDMA network ID (NID).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: Yes

### SystemId

CDMA system ID (SID).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 32767.

Required: Yes

### BaseLat

CDMA base station latitude in degrees.

Type: Float

Valid Range: Minimum value of -90. Maximum value of 90.

Required: No

## BaseLng

CDMA base station longitude in degrees.

Type: Float

Valid Range: Minimum value of -180. Maximum value of 180.

Required: No

## CdmaLocalId

CDMA local identification (local ID) parameters.

Type: [CdmaLocalId](#) object

Required: No

## CdmaNmr

CDMA network measurement reports.

Type: Array of [CdmaNmrObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Required: No

## PilotPower

Transmit power level of the pilot signal, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -142. Maximum value of -49.

Required: No

## RegistrationZone

CDMA registration zone (RZ).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 4095.

Required: No

## See Also

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

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



# CellTowers

The cell towers that were used to perform the measurements.

## Contents

### Cdma

CDMA object information.

Type: Array of [CdmaObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 16 items.

Required: No

### Gsm

GSM object information.

Type: Array of [GsmObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 16 items.

Required: No

### Lte

LTE object information.

Type: Array of [LteObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 16 items.

Required: No

### Tdscdma

TD-SCDMA object information.

Type: Array of [TdscdmaObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 16 items.

Required: No

## Wcdma

WCDMA object information.

Type: Array of [WcdmaObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 16 items.

Required: No

## See Also

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

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

Required: No

## See Also

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

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

# DakCertificateMetadata

The device attestation key (DAK) information.

## Contents

### CertificateId

The certificate ID for the DAK.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

### ApId

The advertised product ID (APID) that's used for pre-production and production applications.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### DeviceTypeId

The device type ID that's used for prototyping applications.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

### FactorySupport

Whether factory support has been enabled.

Type: Boolean

Required: No

## MaxAllowedSignature

The maximum number of signatures that the DAK can sign. A value of -1 indicates that there's no device limit.

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 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 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 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](#) 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 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](#) object

Required: No

## See Also

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

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

# Dimension

The required list of dimensions for the metric.

## Contents

### name

The name of the dimension.

Type: String

Length Constraints: Maximum length of 256.

Valid Values: DeviceId | GatewayId

Required: No

### value

The dimension's 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

# DownlinkQueueMessage

The message in the downlink queue.

## Contents

### LoRaWAN

LoRaWAN router info.

Type: [LoRaWANSendDataToDevice](#) 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](((0[1]\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

### 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 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](#) 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 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](#) object

Required: No

### DeviceRegistrationState

Device registration state event configuration for an event configuration item.

Type: [DeviceRegistrationStateEventConfiguration](#) object

Required: No

### Join

Join event configuration for an event configuration item.

Type: [JoinEventConfiguration](#) object

Required: No

### MessageDeliveryStatus

Message delivery status event configuration for an event configuration item.

Type: [MessageDeliveryStatusEventConfiguration](#) object

Required: No

### Proximity

Proximity event configuration for an event configuration item.

Type: [ProximityEventConfiguration](#) object

Required: No

## See Also

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

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

# FPorts

List of FPort assigned for different LoRaWAN application packages to use

## Contents

### Applications

Optional LoRaWAN application information, which can be used for geolocation.

Type: Array of [ApplicationConfig](#) objects

Required: No

### 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](#) object

Required: No

## See Also

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

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

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

# GlobalIdentity

Global identity information.

## Contents

### GeranCid

GERAN (GSM EDGE Radio Access Network) cell global identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: Yes

### Lac

Location area code of the global identity.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: Yes

## See Also

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

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

# Gnss

Global navigation satellite system (GNSS) object used for positioning.

## Contents

### Payload

Payload that contains the GNSS scan result, or NAV message, in hexadecimal notation.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

### AssistAltitude

Optional assistance altitude, which is the altitude of the device at capture time, specified in meters above the WGS84 reference ellipsoid.

Type: Float

Required: No

### AssistPosition

Optional assistance position information, specified using latitude and longitude values in degrees. The coordinates are inside the WGS84 reference frame.

Type: Array of floats

Array Members: Fixed number of 2 items.

Required: No

### CaptureTime

Optional parameter that gives an estimate of the time when the GNSS scan information is taken, in seconds GPS time (GPST). If capture time is not specified, the local server time is used.

Type: Float

Required: No

## CaptureTimeAccuracy

Optional value that gives the capture time estimate accuracy, in seconds. If capture time accuracy is not specified, default value of 300 is used.

Type: Float

Required: No

## Use2DSolver

Optional parameter that forces 2D solve, which modifies the positioning algorithm to a 2D solution problem. When this parameter is specified, the assistance altitude should have an accuracy of at least 10 meters.

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

# GsmLocalId

GSM local ID information, which corresponds to the local identification parameters of a GSM cell.

## Contents

### Bcch

GSM broadcast control channel.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1023.

Required: Yes

### Bsic

GSM base station identity code (BSIC).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 63.

Required: Yes

## See Also

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

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

# GsmNmrObj

GSM object for network measurement reports.

## Contents

### Bcch

GSM broadcast control channel.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1023.

Required: Yes

### Bsic

GSM base station identity code (BSIC).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 63.

Required: Yes

### GlobalIdentity

Global identity information of the GSM object.

Type: [GlobalIdentity](#) object

Required: No

### RxLevel

Rx level, which is the received signal power, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -110. Maximum value of -25.

Required: No

## See Also

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

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

# GsmObj

GSM object.

## Contents

### GeranCid

GERAN (GSM EDGE Radio Access Network) Cell Global Identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: Yes

### Lac

Location area code.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: Yes

### Mcc

Mobile Country Code.

Type: Integer

Valid Range: Minimum value of 200. Maximum value of 999.

Required: Yes

### Mnc

Mobile Network Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 999.

Required: Yes



## GsmLocalId

GSM local identification (local ID) information.

Type: [GsmLocalId](#) object

Required: No

## GsmNmr

GSM object for network measurement reports.

Type: Array of [GsmNmrObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Required: No

## GsmTimingAdvance

Timing advance value, which corresponds to the length of time a signal takes to reach the base station from a mobile phone.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 63.

Required: No

## RxLevel

Rx level, which is the received signal power, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -110. Maximum value of -25.

Required: No

## See Also

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

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

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

# ImportedSidewalkDevice

Information about a Sidewalk device that has been added to an import task.

## Contents

### LastUpdateTime

The time at which the status information was last updated.

Type: Timestamp

Required: No

### OnboardingStatus

The onboarding status of the Sidewalk device in the import task.

Type: String

Valid Values: INITIALIZED | PENDING | ONBOARDED | FAILED

Required: No

### OnboardingStatusReason

The reason for the onboarding status information for the Sidewalk device.

Type: String

Required: No

### SidewalkManufacturingSn

The Sidewalk manufacturing serial number (SMSN) of the Sidewalk device.

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

# ImportedWirelessDevice

Information about a wireless device that has been added to an import task.

## Contents

### Sidewalk

The Sidewalk-related information about a device that has been added to an import task.

Type: [ImportedSidewalkDevice](#) object

Required: No

## See Also

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

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

# Ip

IP address used for resolving device location.

## Contents

### IpAddress

IP address information.

Type: String

Required: Yes

## See Also

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

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

# 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](#) 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 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](#) object

Required: No

## See Also

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

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



# 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 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 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](#) object

Required: No

### AbpV1\_1

ABP device object for create APIs for v1.1

Type: [AbpV1\\_1](#) 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](#) object

Required: No

### **OtaaV1\_0\_x**

OTAA device object for create APIs for v1.0.x

Type: [OtaaV1\\_0\\_x](#) object

Required: No

### **OtaaV1\_1**

OTAA device object for v1.1 for create APIs

Type: [OtaaV1\\_1](#) 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 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](#) objects

Required: No

## PublicGateways

Information about the LoRaWAN public network accessed by the device.

Type: Array of [LoRaWANPublicGatewayMetadata](#) 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](((0[1]\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

## See Also

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

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

# 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. It ranges from 0 to 15.

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 32. 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 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 | AS923-2 | AS923-3 | AS923-4  
| EU433 | CN470 | CN779 | RU864 | KR920 | IN865

Required: No

## See Also

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

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

# 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 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](#) 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

### MaxEirp

The MaxEIRP value.

Type: Float

Valid Range: Minimum value of 0. Maximum value of 30.

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



# LoRaWANGatewayCurrentVersion

LoRaWANGatewayCurrentVersion object.

## Contents

### CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion](#) object

Required: No

## See Also

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

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

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

# LoRaWANMulticast

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

## Contents

### DLClass

DLClass for LoRaWAN, 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 | AS923-2 | AS923-3 | AS923-4  
| EU433 | CN470 | CN779 | RU864 | KR920 | IN865

Required: No

## See Also

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

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

# LoRaWANMulticastGet

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

## Contents

### DIClass

DIClass 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 | AS923-2 | AS923-3 | AS923-4  
| EU433 | CN470 | CN779 | RU864 | KR920 | IN865

Required: No

## See Also

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

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



# 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 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

### PingSlotPeriod

The PingSlotPeriod value.

Type: Integer

Valid Range: Minimum value of 32. Maximum value of 4096.

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

# LoRaWANPublicGatewayMetadata

LoRaWAN public gateway metadata.

## Contents

### DLAllowed

Boolean that indicates whether downlink is allowed using the network.

Type: Boolean

Required: No

### Id

The ID of the gateways that are operated by the network provider.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### ProviderNetId

The ID of the LoRaWAN public network provider.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### RfRegion

The frequency band (RFRegion) value.

Type: String

Length Constraints: Maximum length of 64.

Required: No

### Rssi

The RSSI (received signal strength indicator) value.

Type: Double

Required: No

## **Snr**

The SNR (signal to noise ratio) 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 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](#) object

Required: No

## See Also

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

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

# 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

### PrAllowed

The PRAllowed 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

## See Also

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

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



# 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 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](#) object

Required: No

### AbpV1\_1

ABP device object for update APIs for v1.1

Type: [UpdateAbpV1\\_1](#) 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](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

# LoRaWANUpdateGatewayTaskCreate

LoRaWANUpdateGatewayTaskCreate object.

## Contents

### CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion](#) 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](#) object

Required: No

## See Also

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

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

# LoRaWANUpdateGatewayTaskEntry

LoRaWANUpdateGatewayTaskEntry object.

## Contents

### CurrentVersion

The version of the gateways that should receive the update.

Type: [LoRaWANGatewayVersion](#) object

Required: No

### UpdateVersion

The firmware version to update the gateway to.

Type: [LoRaWANGatewayVersion](#) object

Required: No

## See Also

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

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

# LteLocalId

LTE local identification (local ID) information.

## Contents

### Earfcn

Evolved universal terrestrial radio access (E-UTRA) absolute radio frequency channel number (FCN).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 262143.

Required: Yes

### Pci

Physical cell ID.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 503.

Required: Yes

## See Also

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

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

# LteNmrObj

LTE object for network measurement reports.

## Contents

### Earfcn

E-UTRA (Evolved universal terrestrial Radio Access) absolute radio frequency channel Number (EARFCN).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 262143.

Required: Yes

### EutranCid

E-UTRAN (Evolved Universal Terrestrial Radio Access Network) cell global identifier (EUTRANCID).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: Yes

### Pci

Physical cell ID.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 503.

Required: Yes

### Rsrp

Signal power of the reference signal received, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -140. Maximum value of -44.



Required: No

## Rsrq

Signal quality of the reference Signal received, measured in decibels (dB).

Type: Float

Valid Range: Minimum value of -19.5. Maximum value of -3.

Required: No

## See Also

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

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

# LteObj

LTE object.

## Contents

### EutranCid

E-UTRAN (Evolved Universal Terrestrial Radio Access Network) Cell Global Identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: Yes

### Mcc

Mobile Country Code.

Type: Integer

Valid Range: Minimum value of 200. Maximum value of 999.

Required: Yes

### Mnc

Mobile Network Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 999.

Required: Yes

### LteLocalId

LTE local identification (local ID) information.

Type: [LteLocalId](#) object

Required: No

### LteNmr

LTE object for network measurement reports.

Type: Array of [LteNmrObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Required: No

### **LteTimingAdvance**

LTE timing advance.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1282.

Required: No

### **NrCapable**

Parameter that determines whether the LTE object is capable of supporting NR (new radio).

Type: Boolean

Required: No

### **Rsrp**

Signal power of the reference signal received, measured in dBm (decibel-milliwatts).

Type: Integer

Valid Range: Minimum value of -140. Maximum value of -44.

Required: No

### **Rsrq**

Signal quality of the reference Signal received, measured in decibels (dB).

Type: Float

Valid Range: Minimum value of -19.5. Maximum value of -3.

Required: No

### **Tac**

LTE tracking area code.

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 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](#) 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 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](#) object

Required: No

## See Also

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

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

# MetricQueryValue

The aggregated values of the metric.

## Contents

### Avg

The average of the values of all data points collected during the aggregation period.

Type: Double

Required: No

### Max

The maximum of the values of all the data points collected during the aggregation period.

Type: Double

Required: No

### Min

The minimum of the values of all data points collected during the aggregation period.

Type: Double

Required: No

### P90

The 90th percentile of the values of all data points collected during the aggregation period.

Type: Double

Required: No

### Std

The standard deviation of the values of all data points collected during the aggregation period.

Type: Double

Required: No

## Sum

The sum of the values of all data points collected during the aggregation period.

Type: Double

Required: No

## See Also

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

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



# 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 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 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: [LoRaWANMulticastMetadata](#) object

Required: No

## See Also

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

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

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

# OtaaV1\_0\_x

OTAA device object for v1.0.x

## Contents

### AppEui

The AppEUI value. You specify this value when using LoRaWAN versions v1.0.2 or v1.0.3.

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

### JoinEui

The JoinEUI value. You specify this value instead of the AppEUI when using LoRaWAN version v1.0.4.

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 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 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](#) 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 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](#) object

Required: No

## See Also

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

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

# 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 Java V2](#)

- [AWS SDK for Ruby V3](#)

# PositionSolverConfigurations

The wrapper for position solver configurations.

## Contents

### SemtechGnss

The Semtech GNSS solver configuration object.

Type: [SemtechGnssConfiguration](#) object

Required: No

## See Also

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

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



# PositionSolverDetails

The wrapper for position solver details.

## Contents

### SemtechGnss

The Semtech GNSS solver object details.

Type: [SemtechGnssDetail](#) object

Required: No

## See Also

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

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

# 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](#) 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 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](#) object

Required: No

## See Also

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

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

# 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 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 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 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 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 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 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 Java V2](#)

- [AWS SDK for Ruby V3](#)

# SidewalkCreateDeviceProfile

Sidewalk object for creating a device profile.

## Contents

The members of this exception structure are context-dependent.

## See Also

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

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

# SidewalkCreateWirelessDevice

Sidewalk object for creating a wireless device.

## Contents

### DeviceProfileId

The ID of the Sidewalk device 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 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

### CertificateId

The ID of the Sidewalk device profile.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### DeviceCertificates

The sidewalk device certificates for Ed25519 and P256r1.

Type: Array of [CertificateList](#) objects

Required: No

### DeviceProfileId

The ID of the Sidewalk device profile.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### PrivateKeys

The Sidewalk device private keys that will be used for onboarding the device.

Type: Array of [CertificateList](#) 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

### **Status**

The Sidewalk device status, such as provisioned or registered.

Type: String

Valid Values: PROVISIONED | REGISTERED | ACTIVATED | UNKNOWN

Required: No

## **See Also**

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

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

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

# SidewalkGetDeviceProfile

Gets information about a Sidewalk device profile.

## Contents

### ApplicationServerPublicKey

The Sidewalk application server public key.

Type: String

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

Pattern: `[a-fA-F0-9]{64}`

Required: No

### DakCertificateMetadata

The DAK certificate information of the Sidewalk device profile.

Type: Array of [DakCertificateMetadata](#) objects

Required: No

### QualificationStatus

Gets information about the certification status of a Sidewalk device profile.

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



# SidewalkGetStartImportInfo

Sidewalk-related information for devices in an import task that are being onboarded.

## Contents

### DeviceCreationFileList

List of Sidewalk devices that are added to the import task.

Type: Array of strings

Length Constraints: Maximum length of 1024.

Required: No

### Role

The IAM role that allows AWS IoT Wireless to access the CSV file in the S3 bucket.

Type: String

Length Constraints: 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 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](#) objects

Required: No

### DeviceProfileId

Sidewalk object used by list functions.

Type: String

Length Constraints: Maximum length of 256.

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

## Status

The status of the Sidewalk devices, such as provisioned or registered.

Type: String

Valid Values: PROVISIONED | REGISTERED | ACTIVATED | UNKNOWN

Required: No

## See Also

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

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

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

# SidewalkSingleStartImportInfo

Information about an import task created for an individual Sidewalk device.

## Contents

### SidewalkManufacturingSn

The Sidewalk manufacturing serial number (SMSN) of the device added to the import task.

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

# SidewalkStartImportInfo

Information about an import task created for bulk provisioning.

## Contents

### DeviceCreationFile

The CSV file contained in an S3 bucket that's used for adding devices to an import task.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

### Role

The IAM role that allows AWS IoT Wireless to access the CSV file in the S3 bucket.

Type: String

Length Constraints: 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 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 Java V2](#)
- [AWS SDK for Ruby V3](#)



# SidewalkUpdateImportInfo

Sidewalk object information for updating an import task.

## Contents

### DeviceCreationFile

The CSV file contained in an S3 bucket that's used for appending devices to an existing import task.

Type: String

Length Constraints: Maximum length of 1024.

Required: No

## See Also

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

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

# SummaryMetricConfiguration

The configuration of summary metrics.

## Contents

### Status

The status of the configuration of summary metrics.

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

# SummaryMetricQuery

The summary metric query object.

## Contents

### AggregationPeriod

The aggregation period of the summary metric.

Type: String

Valid Values: OneHour | OneDay | OneWeek

Required: No

### Dimensions

The dimensions of the summary metric.

Type: Array of [Dimension](#) objects

Required: No

### EndTimestamp

The end timestamp for the summary metric query.

Type: Timestamp

Required: No

### MetricName

The name of the metric.

Type: String

Length Constraints: Maximum length of 256.

Valid Values: DeviceRSSI | DeviceSNR | DeviceUplinkCount |  
DeviceDownlinkCount | DeviceUplinkLostCount | DeviceUplinkLostRate  
| DeviceJoinRequestCount | DeviceJoinAcceptCount |  
DeviceRoamingUplinkCount | DeviceRoamingDownlinkCount |

GatewayUpTime | GatewayDownTime | GatewayRSSI | GatewaySNR |  
GatewayUplinkCount | GatewayDownlinkCount | GatewayJoinRequestCount |  
GatewayJoinAcceptCount | AwsAccountUplinkCount | AwsAccountDownlinkCount  
| AwsAccountUplinkLostCount | AwsAccountUplinkLostRate |  
AwsAccountJoinRequestCount | AwsAccountJoinAcceptCount |  
AwsAccountRoamingUplinkCount | AwsAccountRoamingDownlinkCount  
| AwsAccountDeviceCount | AwsAccountGatewayCount |  
AwsAccountActiveDeviceCount | AwsAccountActiveGatewayCount

Required: No

## QueryId

The id of the summary metric query.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## StartTimestamp

The start timestamp for the summary metric query.

Type: Timestamp

Required: No

## See Also

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

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

# SummaryMetricQueryResult

The result of the summary metrics aggregation operation.

## Contents

### AggregationPeriod

The aggregation period of the metric.

Type: String

Valid Values: OneHour | OneDay | OneWeek

Required: No

### Dimensions

The dimensions of the metric.

Type: Array of [Dimension](#) objects

Required: No

### EndTimestamp

The end timestamp for the summary metric query.

Type: Timestamp

Required: No

### Error

The error message for the summary metric query result.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### MetricName

The name of the summary metric query result.

Type: String

Length Constraints: Maximum length of 256.

Valid Values: DeviceRSSI | DeviceSNR | DeviceUplinkCount | DeviceDownlinkCount | DeviceUplinkLostCount | DeviceUplinkLostRate | DeviceJoinRequestCount | DeviceJoinAcceptCount | DeviceRoamingUplinkCount | DeviceRoamingDownlinkCount | GatewayUpTime | GatewayDownTime | GatewayRSSI | GatewaySNR | GatewayUplinkCount | GatewayDownlinkCount | GatewayJoinRequestCount | GatewayJoinAcceptCount | AwsAccountUplinkCount | AwsAccountDownlinkCount | AwsAccountUplinkLostCount | AwsAccountUplinkLostRate | AwsAccountJoinRequestCount | AwsAccountJoinAcceptCount | AwsAccountRoamingUplinkCount | AwsAccountRoamingDownlinkCount | AwsAccountDeviceCount | AwsAccountGatewayCount | AwsAccountActiveDeviceCount | AwsAccountActiveGatewayCount

Required: No

### **QueryId**

The ID of the summary metric results query operation.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### **QueryStatus**

The status of the summary metric query result.

Type: String

Valid Values: Succeeded | Failed

Required: No

### **StartTimestamp**

The start timestamp for the summary metric query.

Type: Timestamp

Required: No

## Timestamps

The timestamp of each aggregation result.

Type: Array of timestamps

Required: No

## Unit

The units of measurement to be used for interpreting the aggregation result.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## Values

The list of aggregated summary metric query results.

Type: Array of [MetricQueryValue](#) objects

Required: No

## See Also

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

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

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



# TdscdmaLocalId

TD-SCDMA local identification (local Id) information.

## Contents

### CellParams

Cell parameters for TD-SCDMA.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 127.

Required: Yes

### Uarfcn

TD-SCDMA UTRA (Universal Terrestrial Radio Access Network) absolute RF channel number (UARFCN).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 16383.

Required: Yes

## See Also

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

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

# TdscdmaNmrObj

TD-SCDMA object for network measurement reports.

## Contents

### CellParams

Cell parameters for TD-SCDMA network measurement reports object.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 127.

Required: Yes

### Uarfcn

TD-SCDMA UTRA (Universal Terrestrial Radio Access Network) absolute RF channel number.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 16383.

Required: Yes

### PathLoss

Path loss, or path attenuation, is the reduction in power density of an electromagnetic wave as it propagates through space.

Type: Integer

Valid Range: Minimum value of 46. Maximum value of 158.

Required: No

### Rscp

Code power of the received signal, measured in decibel-milliwatts (dBm).

Type: Integer

Valid Range: Minimum value of -120. Maximum value of -25.

Required: No

## UtranCid

UTRAN (UMTS Terrestrial Radio Access Network) cell global identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: No

## See Also

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

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

# TdscdmaObj

TD-SCDMA object.

## Contents

### Mcc

Mobile Country Code.

Type: Integer

Valid Range: Minimum value of 200. Maximum value of 999.

Required: Yes

### Mnc

Mobile Network Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 999.

Required: Yes

### UtranCid

UTRAN (UMTS Terrestrial Radio Access Network) Cell Global Identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: Yes

### Lac

Location Area Code.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

## PathLoss

Path loss, or path attenuation, is the reduction in power density of an electromagnetic wave as it propagates through space.

Type: Integer

Valid Range: Minimum value of 46. Maximum value of 158.

Required: No

## Rscp

Signal power of the received signal (Received Signal Code Power), measured in decibel-milliwatts (dBm).

Type: Integer

Valid Range: Minimum value of -120. Maximum value of -25.

Required: No

## TdscdmaLocalId

TD-SCDMA local identification (local ID) information.

Type: [TdscdmaLocalId](#) object

Required: No

## TdscdmaNmr

TD-SCDMA object for network measurement reports.

Type: Array of [TdscdmaNmrObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Required: No

## TdscdmaTimingAdvance

TD-SCDMA Timing advance.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1530.

Required: No

## See Also

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

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

# TraceContent

Trace content for your wireless devices, gateways, and multicast groups.

## 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

### MulticastFrameInfo

`FrameInfo` of your multicast group resources for the trace content. Use `FrameInfo` to debug the multicast communication between your multicast groups and the network server.

Type: String

Valid Values: `ENABLED` | `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 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 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

# UpdateFPorts

Object for updating the FPorts information.

## Contents

### Applications

LoRaWAN application, which can be used for geolocation by activating positioning.

Type: Array of [ApplicationConfig](#) objects

Required: No

### Positioning

Positioning FPorts for the ClockSync, Stream, and GNSS functions.

Type: [Positioning](#) object

Required: No

## See Also

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

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

# UpdateWirelessGatewayTaskCreate

UpdateWirelessGatewayTaskCreate object.

## Contents

### LoRaWAN

The properties that relate to the LoRaWAN wireless gateway.

Type: [LoRaWANUpdateGatewayTaskCreate](#) 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 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](#) object

Required: No

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# WcdmaLocalId

WCDMA local identification (local ID) information.

## Contents

### Psc

Primary Scrambling Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 511.

Required: Yes

### Uarfcndl

WCDMA UTRA Absolute RF Channel Number downlink.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 16383.

Required: Yes

## See Also

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

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



# WcdmaNmrObj

Network Measurement Reports.

## Contents

### Psc

Primary Scrambling Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 511.

Required: Yes

### Uarfcndl

WCDMA UTRA Absolute RF Channel Number downlink.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 16383.

Required: Yes

### UtranCid

UTRAN (UMTS Terrestrial Radio Access Network) Cell Global Identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: Yes

### PathLoss

Path loss, or path attenuation, is the reduction in power density of an electromagnetic wave as it propagates through space.

Type: Integer

Valid Range: Minimum value of 46. Maximum value of 158.

Required: No

## Rscp

Received Signal Code Power (signal power) (dBm)

Type: Integer

Valid Range: Minimum value of -120. Maximum value of -25.

Required: No

## See Also

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

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

# WcdmaObj

WCDMA.

## Contents

### Mcc

Mobile Country Code.

Type: Integer

Valid Range: Minimum value of 200. Maximum value of 999.

Required: Yes

### Mnc

Mobile Network Code.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 999.

Required: Yes

### UtranCid

UTRAN (UMTS Terrestrial Radio Access Network) Cell Global Identifier.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 268435455.

Required: Yes

### Lac

Location Area Code.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 65535.

Required: No

## PathLoss

Path loss, or path attenuation, is the reduction in power density of an electromagnetic wave as it propagates through space.

Type: Integer

Valid Range: Minimum value of 46. Maximum value of 158.

Required: No

## Rscp

Received Signal Code Power (signal power) (dBm).

Type: Integer

Valid Range: Minimum value of -120. Maximum value of -25.

Required: No

## WcdmaLocalId

WCDMA local ID information.

Type: [WcdmaLocalId](#) object

Required: No

## WcdmaNmr

WCDMA object for network measurement reports.

Type: Array of [WcdmaNmrObj](#) objects

Array Members: Minimum number of 1 item. Maximum number of 32 items.

Required: No

## See Also

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

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

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

# WiFiAccessPoint

Wi-Fi access point.

## Contents

### MacAddress

Wi-Fi MAC Address.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 17.

Pattern: `^([0-9A-Fa-f]{2}[:-]?)\{5}([0-9A-Fa-f]{2})\}$`

Required: Yes

### Rss

Received signal strength (dBm) of the WLAN measurement data.

Type: Integer

Valid Range: Minimum value of -128. Maximum value of 0.

Required: Yes

## See Also

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

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

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





# WirelessDeviceImportTask

Information about an import task for wireless devices.

## Contents

### Arn

The ARN (Amazon Resource Name) of the wireless device import task.

Type: String

Length Constraints: Maximum length of 128.

Required: No

### CreationTime

The time at which the import task was created.

Type: Timestamp

Required: No

### DestinationName

The name of the Sidewalk destination that that describes the IoT rule to route messages from the device in the import task that will be onboarded to AWS IoT Wireless

Type: String

Length Constraints: Maximum length of 128.

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

Required: No

### FailedImportedDeviceCount

The summary information of count of wireless devices in an import task that failed to onboarded to the import task.

Type: Long

Required: No

## **Id**

The ID of the wireless device import task.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## **InitializedImportedDeviceCount**

The summary information of count of wireless devices that are waiting for the control log to be added to an import task.

Type: Long

Required: No

## **OnboardedImportedDeviceCount**

The summary information of count of wireless devices in an import task that have been onboarded to the import task.

Type: Long

Required: No

## **PendingImportedDeviceCount**

The summary information of count of wireless devices in an import task that are waiting in the queue to be onboarded.

Type: Long

Required: No

## **Sidewalk**

The Sidewalk-related information of the wireless device import task.

Type: [SidewalkGetStartImportInfo](#) object

Required: No

## Status

The status information of the wireless device import task.

Type: String

Valid Values: INITIALIZING | INITIALIZED | PENDING | COMPLETE | FAILED | DELETING

Required: No

## StatusReason

The reason that provides additional information about the import task status.

Type: String

Required: No

## See Also

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

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

# WirelessDeviceLogOption

The log options for wireless devices and can be used to set log levels for a specific type of wireless device.

## 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: Yes

### Type

The wireless device type.

Type: String

Valid Values: Sidewalk | LoRaWAN

Required: Yes

### Events

The list of wireless device event log options.

Type: Array of [WirelessDeviceEventLogOption](#) objects

Required: No

## See Also

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

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

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

# 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 | MICErrror | Successful | Device\_exist\_in\_conflict\_fuota\_task

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.

#### Note

This value is only valid for 3 months.

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](((0[1]\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](#) 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](#) 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 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 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

### 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

### Events

The list of wireless gateway event log options.

Type: Array of [WirelessGatewayEventLogOption](#) objects

Required: No

## See Also

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

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

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

# 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.

#### Note

This value is only valid for 3 months.

Type: String

Pattern: `^([\+-]?\d{4}(?!\\d{2}\b))((-?)(\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](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

# WirelessMetadata

WirelessMetadata object.

## Contents

### LoRaWAN

LoRaWAN device info.

Type: [LoRaWANSendDataToDevice](#) object

Required: No

### Sidewalk

The Sidewalk account credentials.

Type: [SidewalkSendDataToDevice](#) object

Required: No

## See Also

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

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

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

### **X-Amz-Date**

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

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

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

Type: string

Required: Conditional

### **X-Amz-Signature**

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

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



Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **RequestExpired**

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

HTTP Status Code: 400

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **ServiceUnavailable**

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

HTTP Status Code: 503

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

### **UnrecognizedClientException**

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

HTTP Status Code: 403

## **UnknownOperationException**

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

HTTP Status Code: 404

## **ValidationError**

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

HTTP Status Code: 400