



Welcome

AWS IoT FleetWise



API Version 2021-06-17

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AWS IoT FleetWise: Welcome

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Welcome

AWS IoT FleetWise is a fully managed service that you can use to collect, model, and transfer vehicle data to the AWS cloud at scale. With AWS IoT FleetWise, you can standardize all of your vehicle data models, independent of the in-vehicle communication architecture, and define data collection rules to transfer only high-value data to the cloud.

For more information, see [What is AWS IoT FleetWise?](#) in the *AWS IoT FleetWise Developer Guide*.

This document was last published on July 4, 2024.

Actions

The following actions are supported:

- [AssociateVehicleFleet](#)
- [BatchCreateVehicle](#)
- [BatchUpdateVehicle](#)
- [CreateCampaign](#)
- [CreateDecoderManifest](#)
- [CreateFleet](#)
- [CreateModelManifest](#)
- [CreateSignalCatalog](#)
- [CreateVehicle](#)
- [DeleteCampaign](#)
- [DeleteDecoderManifest](#)
- [DeleteFleet](#)
- [DeleteModelManifest](#)
- [DeleteSignalCatalog](#)
- [DeleteVehicle](#)
- [DisassociateVehicleFleet](#)
- [GetCampaign](#)
- [GetDecoderManifest](#)
- [GetEncryptionConfiguration](#)
- [GetFleet](#)
- [GetLoggingOptions](#)
- [GetModelManifest](#)
- [GetRegisterAccountStatus](#)
- [GetSignalCatalog](#)
- [GetVehicle](#)
- [GetVehicleStatus](#)
- [ImportDecoderManifest](#)

- [ImportSignalCatalog](#)
- [ListCampaigns](#)
- [ListDecoderManifestNetworkInterfaces](#)
- [ListDecoderManifests](#)
- [ListDecoderManifestSignals](#)
- [ListFleets](#)
- [ListFleetsForVehicle](#)
- [ListModelManifestNodes](#)
- [ListModelManifests](#)
- [ListSignalCatalogNodes](#)
- [ListSignalCatalogs](#)
- [ListTagsForResource](#)
- [ListVehicles](#)
- [ListVehiclesInFleet](#)
- [PutEncryptionConfiguration](#)
- [PutLoggingOptions](#)
- [RegisterAccount](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateCampaign](#)
- [UpdateDecoderManifest](#)
- [UpdateFleet](#)
- [UpdateModelManifest](#)
- [UpdateSignalCatalog](#)
- [UpdateVehicle](#)

AssociateVehicleFleet

Adds, or associates, a vehicle with a fleet.

Request Syntax

```
{  
  "fleetId": "string",  
  "vehicleName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

fleetId

The ID of a fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

vehicleName

The unique ID of the vehicle to associate with the fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:]+

Required: Yes

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

BatchCreateVehicle

Creates a group, or batch, of vehicles.

Note

You must specify a decoder manifest and a vehicle model (model manifest) for each vehicle.

For more information, see [Create multiple vehicles \(AWS CLI\)](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "vehicles": [
    {
      "associationBehavior": "string",
      "attributes": {
        "string" : "string"
      },
      "decoderManifestArn": "string",
      "modelManifestArn": "string",
      "tags": [
        {
          "Key": "string",
          "Value": "string"
        }
      ],
      "vehicleName": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

vehicles

A list of information about each vehicle to create. For more information, see the [CreateVehicleRequestItem](#) API data type.

Type: Array of [CreateVehicleRequestItem](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
{
  "errors": [
    {
      "code": "string",
      "message": "string",
      "vehicleName": "string"
    }
  ],
  "vehicles": [
    {
      "arn": "string",
      "thingArn": "string",
      "vehicleName": "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.

errors

A list of information about creation errors, or an empty list if there aren't any errors.

Type: Array of [CreateVehicleError](#) objects

vehicles

A list of information about a batch of created vehicles. For more information, see the [CreateVehicleResponseItem](#) API data type.

Type: Array of [CreateVehicleResponseItem](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

BatchUpdateVehicle

Updates a group, or batch, of vehicles.

Note

You must specify a decoder manifest and a vehicle model (model manifest) for each vehicle.

For more information, see [Update multiple vehicles \(AWS CLI\)](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "vehicles": [
    {
      "attributes": {
        "string" : "string"
      },
      "attributeUpdateMode": "string",
      "decoderManifestArn": "string",
      "modelManifestArn": "string",
      "vehicleName": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

vehicles

A list of information about the vehicles to update. For more information, see the [UpdateVehicleRequestItem](#) API data type.

Type: Array of [UpdateVehicleRequestItem](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

```
{
  "errors": [
    {
      "code": number,
      "message": "string",
      "vehicleName": "string"
    }
  ],
  "vehicles": [
    {
      "arn": "string",
      "vehicleName": "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.

errors

A list of information about errors returned while updating a batch of vehicles, or, if there aren't any errors, an empty list.

Type: Array of [UpdateVehicleError](#) objects

vehicles

A list of information about the batch of updated vehicles.

Note

This list contains only unique IDs for the vehicles that were updated.

Type: Array of [UpdateVehicleResponseItem](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateCampaign

Creates an orchestration of data collection rules. The AWS IoT FleetWise Edge Agent software running in vehicles uses campaigns to decide how to collect and transfer data to the cloud. You create campaigns in the cloud. After you or your team approve campaigns, AWS IoT FleetWise automatically deploys them to vehicles.

For more information, see [Collect and transfer data with campaigns](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "collectionScheme": { ... },
  "compression": "string",
  "dataDestinationConfigs": [
    { ... }
  ],
  "dataExtraDimensions": [ "string" ],
  "description": "string",
  "diagnosticsMode": "string",
  "expiryTime": number,
  "name": "string",
  "postTriggerCollectionDuration": number,
  "priority": number,
  "signalCatalogArn": "string",
  "signalsToCollect": [
    {
      "maxSampleCount": number,
      "minimumSamplingIntervalMs": number,
      "name": "string"
    }
  ],
  "spoolingMode": "string",
  "startTime": number,
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "targetArn": "string"
}
```



```
}
```

Request Parameters

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

The request accepts the following data in JSON format.

collectionScheme

The data collection scheme associated with the campaign. You can specify a scheme that collects data based on time or an event.

Type: [CollectionScheme](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

compression

(Optional) Whether to compress signals before transmitting data to AWS IoT FleetWise. If you don't want to compress the signals, use OFF. If it's not specified, SNAPPY is used.

Default: SNAPPY

Type: String

Valid Values: OFF | SNAPPY

Required: No

dataDestinationConfigs

The destination where the campaign sends data. You can choose to send data to be stored in Amazon S3 or Amazon Timestream.

Amazon S3 optimizes the cost of data storage and provides additional mechanisms to use vehicle data, such as data lakes, centralized data storage, data processing pipelines, and analytics. AWS IoT FleetWise supports at-least-once file delivery to S3. Your vehicle data is stored on multiple AWS IoT FleetWise servers for redundancy and high availability.

You can use Amazon Timestream to access and analyze time series data, and Timestream to query vehicle data so that you can identify trends and patterns.

Type: Array of [DataDestinationConfig](#) objects

Array Members: Fixed number of 1 item.

Required: No

[dataExtraDimensions](#)

(Optional) A list of vehicle attributes to associate with a campaign.

Enrich the data with specified vehicle attributes. For example, add `make` and `model` to the campaign, and AWS IoT FleetWise will associate the data with those attributes as dimensions in Amazon Timestream. You can then query the data against `make` and `model`.

Default: An empty array

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

[description](#)

An optional description of the campaign to help identify its purpose.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

[diagnosticsMode](#)

(Optional) Option for a vehicle to send diagnostic trouble codes to AWS IoT FleetWise. If you want to send diagnostic trouble codes, use `SEND_ACTIVE_DTCS`. If it's not specified, `OFF` is used.

Default: `OFF`

Type: String

Valid Values: OFF | SEND_ACTIVE_DTCS

Required: No

expiryTime

(Optional) The time the campaign expires, in seconds since epoch (January 1, 1970 at midnight UTC time). Vehicle data isn't collected after the campaign expires.

Default: 253402214400 (December 31, 9999, 00:00:00 UTC)

Type: Timestamp

Required: No

name

The name of the campaign to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

postTriggerCollectionDuration

(Optional) How long (in milliseconds) to collect raw data after a triggering event initiates the collection. If it's not specified, 0 is used.

Default: 0

Type: Long

Valid Range: Minimum value of 0. Maximum value of 4294967295.

Required: No

priority

(Optional) A number indicating the priority of one campaign over another campaign for a certain vehicle or fleet. A campaign with the lowest value is deployed to vehicles before any other campaigns. If it's not specified, 0 is used.

Default: 0

Type: Integer

Valid Range: Minimum value of 0.

Required: No

signalCatalogArn

The Amazon Resource Name (ARN) of the signal catalog to associate with the campaign.

Type: String

Required: Yes

signalsToCollect

(Optional) A list of information about signals to collect.

Type: Array of [SignalInformation](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

Required: No

spoolingMode

(Optional) Whether to store collected data after a vehicle lost a connection with the cloud. After a connection is re-established, the data is automatically forwarded to AWS IoT FleetWise. If you want to store collected data when a vehicle loses connection with the cloud, use TO_DISK. If it's not specified, OFF is used.

Default: OFF

Type: String

Valid Values: OFF | TO_DISK

Required: No

startTime

(Optional) The time, in milliseconds, to deliver a campaign after it was approved. If it's not specified, 0 is used.

Default: 0

Type: Timestamp

Required: No

tags

Metadata that can be used to manage the campaign.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

targetArn

The ARN of the vehicle or fleet to deploy a campaign to.

Type: String

Required: Yes

Response Syntax

```
{
  "arn": "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 ARN of the created campaign.

Type: String

name

The name of the created campaign.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateDecoderManifest

Creates the decoder manifest associated with a model manifest. To create a decoder manifest, the following must be true:

- Every signal decoder has a unique name.
- Each signal decoder is associated with a network interface.
- Each network interface has a unique ID.
- The signal decoders are specified in the model manifest.

Request Syntax

```
{
  "description": "string",
  "modelManifestArn": "string",
  "name": "string",
  "networkInterfaces": [
    {
      "canInterface": {
        "name": "string",
        "protocolName": "string",
        "protocolVersion": "string"
      },
      "interfaceId": "string",
      "obdInterface": {
        "dtcRequestIntervalSeconds": number,
        "hasTransmissionEcu": boolean,
        "name": "string",
        "obdStandard": "string",
        "pidRequestIntervalSeconds": number,
        "requestMessageId": number,
        "useExtendedIds": boolean
      },
      "type": "string",
      "vehicleMiddleware": {
        "name": "string",
        "protocolName": "string"
      }
    }
  ],
}
```



```

"signalDecoders": [
  {
    "canSignal": {
      "factor": number,
      "isBigEndian": boolean,
      "isSigned": boolean,
      "length": number,
      "messageId": number,
      "name": "string",
      "offset": number,
      "startBit": number
    },
    "fullyQualified_name": "string",
    "interfaceId": "string",
    "messageSignal": {
      "structuredMessage": { ... },
      "topicName": "string"
    },
    "obdSignal": {
      "bitMaskLength": number,
      "bitRightShift": number,
      "byteLength": number,
      "offset": number,
      "pid": number,
      "pidResponseLength": number,
      "scaling": number,
      "serviceMode": number,
      "startByte": number
    },
    "type": "string"
  }
],
"tags": [
  {
    "Key": "string",
    "Value": "string"
  }
]
}

```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the decoder manifest.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

modelManifestArn

The Amazon Resource Name (ARN) of the vehicle model (model manifest).

Type: String

Required: Yes

name

The unique name of the decoder manifest to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Required: Yes

networkInterfaces

A list of information about available network interfaces.

Type: Array of [NetworkInterface](#) objects

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

Required: No

signalDecoders

A list of information about signal decoders.

Type: Array of [SignalDecoder](#) objects

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

Required: No

[tags](#)

Metadata that can be used to manage the decoder manifest.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
{
  "arn": "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 ARN of the created decoder manifest.

Type: String

[name](#)

The name of the created decoder manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

DecoderManifestValidationException

The request couldn't be completed because it contains signal decoders with one or more validation errors.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateFleet

Creates a fleet that represents a group of vehicles.

Note

You must create both a signal catalog and vehicles before you can create a fleet.

For more information, see [Fleets](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "description": "string",
  "fleetId": "string",
  "signalCatalogArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the fleet to create.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

fleetId

The unique ID of the fleet to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

signalCatalogArn

The Amazon Resource Name (ARN) of a signal catalog.

Type: String

Required: Yes

tags

Metadata that can be used to manage the fleet.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
{
  "arn": "string",
  "id": "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 created fleet.

Type: String

id

The ID of the created fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateModelManifest

Creates a vehicle model (model manifest) that specifies signals (attributes, branches, sensors, and actuators).

For more information, see [Vehicle models](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "nodes": [ "string" ],
  "signalCatalogArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the vehicle model.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the vehicle model to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

nodes

A list of nodes, which are a general abstraction of signals.

Type: Array of strings

Required: Yes

signalCatalogArn

The Amazon Resource Name (ARN) of a signal catalog.

Type: String

Required: Yes

tags

Metadata that can be used to manage the vehicle model.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
{
  "arn": "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 ARN of the created vehicle model.

Type: String

name

The name of the created vehicle model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateSignalCatalog

Creates a collection of standardized signals that can be reused to create vehicle models.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "nodes": [
    { ... }
  ],
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the signal catalog.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the signal catalog to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

nodes

A list of information about nodes, which are a general abstraction of signals. For more information, see the [Node](#) API data type.

Type: Array of [Node](#) objects

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

Required: No

tags

Metadata that can be used to manage the signal catalog.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

Response Syntax

```
{
  "arn": "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 ARN of the created signal catalog.

Type: String

name

The name of the created signal catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidNodeException

The specified node type doesn't match the expected node type for a node. You can specify the node type as branch, sensor, actuator, or attribute.

HTTP Status Code: 400

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

CreateVehicle

Creates a vehicle, which is an instance of a vehicle model (model manifest). Vehicles created from the same vehicle model consist of the same signals inherited from the vehicle model.

Note

If you have an existing AWS IoT thing, you can use AWS IoT FleetWise to create a vehicle and collect data from your thing.

For more information, see [Create a vehicle \(AWS CLI\)](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "associationBehavior": "string",
  "attributes": {
    "string" : "string"
  },
  "decoderManifestArn": "string",
  "modelManifestArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "vehicleName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

associationBehavior

An option to create a new AWS IoT thing when creating a vehicle, or to validate an existing AWS IoT thing as a vehicle.

Default:

Type: String

Valid Values: CreateIotThing | ValidateIotThingExists

Required: No

attributes

Static information about a vehicle in a key-value pair. For example: "engineType" : "1.3 L R2"

A campaign must include the keys (attribute names) in dataExtraDimensions for them to display in Amazon Timestream.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

decoderManifestArn

The ARN of a decoder manifest.

Type: String

Required: Yes

modelManifestArn

The Amazon Resource Name ARN of a vehicle model.

Type: String

Required: Yes

tags

Metadata that can be used to manage the vehicle.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

vehicleName

The unique ID of the vehicle to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{
  "arn": "string",
  "thingArn": "string",
  "vehicleName": "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 created vehicle.

Type: String

thingArn

The ARN of a created or validated AWS IoT thing.

Type: String

vehicleName

The unique ID of the created vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteCampaign

Deletes a data collection campaign. Deleting a campaign suspends all data collection and removes it from any vehicles.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the campaign to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{  
  "arn": "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 (ARN) of the deleted campaign.

Note

The ARN isn't returned if a campaign doesn't exist.

Type: String

name

The name of the deleted campaign.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteDecoderManifest

Deletes a decoder manifest. You can't delete a decoder manifest if it has vehicles associated with it.

Note

If the decoder manifest is successfully deleted, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{
  "name": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the decoder manifest to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{
  "arn": "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 (ARN) of the deleted decoder manifest.

Type: String

name

The name of the deleted decoder manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteFleet

Deletes a fleet. Before you delete a fleet, all vehicles must be dissociated from the fleet. For more information, see [Delete a fleet \(AWS CLI\)](#) in the *AWS IoT FleetWise Developer Guide*.

Note

If the fleet is successfully deleted, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{
  "fleetId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

fleetId

The ID of the fleet to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

Response Syntax

```
{
  "arn": "string",

```

```
"id": "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 (ARN) of the deleted fleet.

Type: String

id

The ID of the deleted fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteModelManifest

Deletes a vehicle model (model manifest).

Note

If the vehicle model is successfully deleted, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the model manifest to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{  
  "arn": "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 (ARN) of the deleted model manifest.

Type: String

name

The name of the deleted model manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteSignalCatalog

Deletes a signal catalog.

Note

If the signal catalog is successfully deleted, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the signal catalog to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{  
  "arn": "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 (ARN) of the deleted signal catalog.

Type: String

name

The name of the deleted signal catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DeleteVehicle

Deletes a vehicle and removes it from any campaigns.

Note

If the vehicle is successfully deleted, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{  
  "vehicleName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

vehicleName

The ID of the vehicle to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "vehicleName": "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 (ARN) of the deleted vehicle.

Type: String

vehicleName

The ID of the deleted vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

DisassociateVehicleFleet

Removes, or disassociates, a vehicle from a fleet. Disassociating a vehicle from a fleet doesn't delete the vehicle.

Note

If the vehicle is successfully dissociated from a fleet, AWS IoT FleetWise sends back an HTTP 200 response with an empty body.

Request Syntax

```
{
  "fleetId": "string",
  "vehicleName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

fleetId

The unique ID of a fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

vehicleName

The unique ID of the vehicle to disassociate from the fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetCampaign

Retrieves information about a campaign.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the campaign to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "collectionScheme": { ... },  
  "compression": "string",  
  "creationTime": number,  
  "dataDestinationConfigs": [  
    { ... }  
  ],  
  "dataExtraDimensions": [ "string" ],  
  "description": "string",
```

```
"diagnosticsMode": "string",
"expiryTime": number,
"lastModificationTime": number,
"name": "string",
"postTriggerCollectionDuration": number,
"priority": number,
"signalCatalogArn": "string",
"signalsToCollect": [
  {
    "maxSampleCount": number,
    "minimumSamplingIntervalMs": number,
    "name": "string"
  }
],
"spoolingMode": "string",
"startTime": number,
"status": "string",
"targetArn": "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 (ARN) of the campaign.

Type: String

collectionScheme

Information about the data collection scheme associated with the campaign.

Type: [CollectionScheme](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

compression

Whether to compress signals before transmitting data to AWS IoT FleetWise. If OFF is specified, the signals aren't compressed. If it's not specified, SNAPPY is used.

Type: String

Valid Values: OFF | SNAPPY

creationTime

The time the campaign was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

dataDestinationConfigs

The destination where the campaign sends data. You can choose to send data to be stored in Amazon S3 or Amazon Timestream.

Amazon S3 optimizes the cost of data storage and provides additional mechanisms to use vehicle data, such as data lakes, centralized data storage, data processing pipelines, and analytics.

You can use Amazon Timestream to access and analyze time series data, and Timestream to query vehicle data so that you can identify trends and patterns.

Type: Array of [DataDestinationConfig](#) objects

Array Members: Fixed number of 1 item.

dataExtraDimensions

A list of vehicle attributes associated with the campaign.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 150.

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

description

The description of the campaign.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

diagnosticsMode

Option for a vehicle to send diagnostic trouble codes to AWS IoT FleetWise.

Type: String

Valid Values: OFF | SEND_ACTIVE_DTCS

expiryTime

The time the campaign expires, in seconds since epoch (January 1, 1970 at midnight UTC time). Vehicle data won't be collected after the campaign expires.

Type: Timestamp

lastModificationTime

The last time the campaign was modified.

Type: Timestamp

name

The name of the campaign.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\.]+`

postTriggerCollectionDuration

How long (in seconds) to collect raw data after a triggering event initiates the collection.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 4294967295.

priority

A number indicating the priority of one campaign over another campaign for a certain vehicle or fleet. A campaign with the lowest value is deployed to vehicles before any other campaigns.

Type: Integer

Valid Range: Minimum value of 0.

signalCatalogArn

The ARN of a signal catalog.

Type: String

signalsToCollect

Information about a list of signals to collect data on.

Type: Array of [SignalInformation](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1000 items.

spoolingMode

Whether to store collected data after a vehicle lost a connection with the cloud. After a connection is re-established, the data is automatically forwarded to AWS IoT FleetWise.

Type: String

Valid Values: OFF | TO_DISK

startTime

The time, in milliseconds, to deliver a campaign after it was approved.

Type: Timestamp

status

The state of the campaign. The status can be one of: CREATING, WAITING_FOR_APPROVAL, RUNNING, and SUSPENDED.

Type: String

Valid Values: CREATING | WAITING_FOR_APPROVAL | RUNNING | SUSPENDED

targetArn

The ARN of the vehicle or the fleet targeted by the campaign.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetDecoderManifest

Retrieves information about a created decoder manifest.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the decoder manifest to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "creationTime": number,  
  "description": "string",  
  "lastModificationTime": number,  
  "message": "string",  
  "modelManifestArn": "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 Amazon Resource Name (ARN) of the decoder manifest.

Type: String

creationTime

The time the decoder manifest was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

description

A brief description of the decoder manifest.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

lastModificationTime

The time the decoder manifest was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

message

The detailed message for the decoder manifest. When a decoder manifest is in an INVALID status, the message contains detailed reason and help information.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

modelManifestArn

The ARN of a vehicle model (model manifest) associated with the decoder manifest.

Type: String

name

The name of the decoder manifest.

Type: String

status

The state of the decoder manifest. If the status is ACTIVE, the decoder manifest can't be edited. If the status is marked DRAFT, you can edit the decoder manifest.

Type: String

Valid Values: ACTIVE | DRAFT | INVALID | VALIDATING

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetEncryptionConfiguration

Retrieves the encryption configuration for resources and data in AWS IoT FleetWise.

Response Syntax

```
{
  "creationTime": number,
  "encryptionStatus": "string",
  "encryptionType": "string",
  "errorMessage": "string",
  "kmsKeyId": "string",
  "lastModificationTime": 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.

creationTime

The time when encryption was configured in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

encryptionStatus

The encryption status.

Type: String

Valid Values: PENDING | SUCCESS | FAILURE

encryptionType

The type of encryption. Set to KMS_BASED_ENCRYPTION to use a KMS key that you own and manage. Set to FLEETWISE_DEFAULT_ENCRYPTION to use an AWS managed key that is owned by the AWS IoT FleetWise service account.

Type: String

Valid Values: KMS_BASED_ENCRYPTION | FLEETWISE_DEFAULT_ENCRYPTION

errorMessage

The error message that describes why encryption settings couldn't be configured, if applicable.

Type: String

kmsKeyId

The ID of the KMS key that is used for encryption.

Type: String

lastModificationTime

The time when encryption was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetFleet

Retrieves information about a fleet.

Request Syntax

```
{  
  "fleetId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

fleetId

The ID of the fleet to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "creationTime": number,  
  "description": "string",  
  "id": "string",  
  "lastModificationTime": number,  
  "signalCatalogArn": "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 (ARN) of the fleet.

Type: String

creationTime

The time the fleet was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

description

A brief description of the fleet.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

id

The ID of the fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

lastModificationTime

The time the fleet was last updated, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

signalCatalogArn

The ARN of a signal catalog associated with the fleet.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetLoggingOptions

Retrieves the logging options.

Response Syntax

```
{
  "cloudWatchLogDelivery": {
    "logGroupName": "string",
    "logType": "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.

[cloudWatchLogDelivery](#)

Returns information about log delivery to Amazon CloudWatch Logs.

Type: [CloudWatchLogDeliveryOptions](#) object

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

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](#)

GetModelManifest

Retrieves information about a vehicle model (model manifest).

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the vehicle model to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "creationTime": number,  
  "description": "string",  
  "lastModificationTime": number,  
  "name": "string",  
  "signalCatalogArn": "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 Amazon Resource Name (ARN) of the vehicle model.

Type: String

creationTime

The time the vehicle model was created, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

description

A brief description of the vehicle model.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

lastModificationTime

The last time the vehicle model was modified.

Type: Timestamp

name

The name of the vehicle model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:]+`

signalCatalogArn

The ARN of the signal catalog associated with the vehicle model.

Type: String

status

The state of the vehicle model. If the status is ACTIVE, the vehicle model can't be edited. You can edit the vehicle model if the status is marked DRAFT.

Type: String

Valid Values: ACTIVE | DRAFT | INVALID | VALIDATING

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetRegisterAccountStatus

Retrieves information about the status of registering your AWS account, IAM, and Amazon Timestream resources so that AWS IoT FleetWise can transfer your vehicle data to the AWS Cloud.

For more information, including step-by-step procedures, see [Setting up AWS IoT FleetWise](#).

Note

This API operation doesn't require input parameters.

Response Syntax

```
{
  "accountStatus": "string",
  "creationTime": number,
  "customerAccountId": "string",
  "iamRegistrationResponse": {
    "errorMessage": "string",
    "registrationStatus": "string",
    "roleArn": "string"
  },
  "lastModificationTime": number,
  "timestreamRegistrationResponse": {
    "errorMessage": "string",
    "registrationStatus": "string",
    "timestreamDatabaseArn": "string",
    "timestreamDatabaseName": "string",
    "timestreamTableArn": "string",
    "timestreamTableName": "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.

accountStatus

The status of registering your account and resources. The status can be one of:

- REGISTRATION_SUCCESS - The AWS resource is successfully registered.
- REGISTRATION_PENDING - AWS IoT FleetWise is processing the registration request. This process takes approximately five minutes to complete.
- REGISTRATION_FAILURE - AWS IoT FleetWise can't register the AWS resource. Try again later.

Type: String

Valid Values: REGISTRATION_PENDING | REGISTRATION_SUCCESS | REGISTRATION_FAILURE

creationTime

The time the account was registered, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

customerAccountId

The unique ID of the AWS account, provided at account creation.

Type: String

iamRegistrationResponse

Information about the registered IAM resources or errors, if any.

Type: [iamRegistrationResponse](#) object

lastModificationTime

The time this registration was last updated, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

timestreamRegistrationResponse

Information about the registered Amazon Timestream resources or errors, if any.

Type: [TimestreamRegistrationResponse](#) object

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetSignalCatalog

Retrieves information about a signal catalog.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the signal catalog to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "creationTime": number,  
  "description": "string",  
  "lastModificationTime": number,  
  "name": "string",  
  "nodeCounts": {  
    "totalActuators": number,  
    "totalAttributes": number,  
    "totalBranches": number,  
  }
```



```
  "totalNodes": number,  
  "totalProperties": number,  
  "totalSensors": number,  
  "totalStructs": 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.

[arn](#)

The Amazon Resource Name (ARN) of the signal catalog.

Type: String

[creationTime](#)

The time the signal catalog was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

[description](#)

A brief description of the signal catalog.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

[lastModificationTime](#)

The last time the signal catalog was modified.

Type: Timestamp

[name](#)

The name of the signal catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

nodeCounts

The total number of network nodes specified in a signal catalog.

Type: [NodeCounts](#) object

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetVehicle

Retrieves information about a vehicle.

Request Syntax

```
{  
  "vehicleName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

vehicleName

The ID of the vehicle to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "attributes": {  
    "string": "string"  
  },  
  "creationTime": number,  
  "decoderManifestArn": "string",  
  "lastModificationTime": number,  
  "modelManifestArn": "string",  
  "vehicleName": "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 (ARN) of the vehicle to retrieve information about.

Type: String

attributes

Static information about a vehicle in a key-value pair. For example:

```
"engineType": "1.3 L R2"
```

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

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

creationTime

The time the vehicle was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

decoderManifestArn

The ARN of a decoder manifest associated with the vehicle.

Type: String

lastModificationTime

The time the vehicle was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

modelManifestArn

The ARN of a vehicle model (model manifest) associated with the vehicle.

Type: String

vehicleName

The ID of the vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

GetVehicleStatus

Retrieves information about the status of a vehicle with any associated campaigns.

Request Syntax

```
{  
  "maxResults": number,  
  "nextToken": "string",  
  "vehicleName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a nextToken pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

vehicleName

The ID of the vehicle to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

Response Syntax

```
{
  "campaigns": [
    {
      "campaignName": "string",
      "status": "string",
      "vehicleName": "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.

campaigns

Lists information about the state of the vehicle with deployed campaigns.

Type: Array of [VehicleStatus](#) objects

nextToken

The token to retrieve the next set of results, or null if there are no more results.

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ImportDecoderManifest

Creates a decoder manifest using your existing CAN DBC file from your local device.

Request Syntax

```
{
  "name": "string",
  "networkFileDefinitions": [
    { ... }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the decoder manifest to import.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

networkFileDefinitions

The file to load into an AWS account.

Type: Array of [NetworkFileDefinition](#) objects

Required: Yes

Response Syntax

```
{
```

```
"arn": "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 (ARN) of the decoder manifest that was imported.

Type: String

name

The name of the imported decoder manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

DecoderManifestValidationException

The request couldn't be completed because it contains signal decoders with one or more validation errors.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ImportSignalCatalog

Creates a signal catalog using your existing VSS formatted content from your local device.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "vss": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the signal catalog.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the signal catalog to import.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

tags

Metadata that can be used to manage the signal catalog.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

vss

The contents of the Vehicle Signal Specification (VSS) configuration. VSS is a precise language used to describe and model signals in vehicle networks.

Type: [FormattedVss](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
{
  "arn": "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 (ARN) of the imported signal catalog.

Type: String

name

The name of the imported signal catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListCampaigns

Lists information about created campaigns.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string",
  "status": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

status

Optional parameter to filter the results by the status of each created campaign in your account. The status can be one of: CREATING, WAITING_FOR_APPROVAL, RUNNING, or SUSPENDED.

Type: String

Required: No

Response Syntax

```
{
  "campaignSummaries": [
    {
      "arn": "string",
      "creationTime": number,
      "description": "string",
      "lastModificationTime": number,
      "name": "string",
      "signalCatalogArn": "string",
      "status": "string",
      "targetArn": "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.

campaignSummaries

A summary of information about each campaign.

Type: Array of [CampaignSummary](#) objects

[nextToken](#)

The token to retrieve the next set of results, or null if there are no more results.

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListDecoderManifestNetworkInterfaces

Lists the network interfaces specified in a decoder manifest.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "name": "string",
  "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

name

The name of the decoder manifest to list information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a nextToken pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "networkInterfaces": [
    {
      "canInterface": {
        "name": "string",
        "protocolName": "string",
        "protocolVersion": "string"
      },
      "interfaceId": "string",
      "obdInterface": {
        "dtcRequestIntervalSeconds": number,
        "hasTransmissionEcu": boolean,
        "name": "string",
        "obdStandard": "string",
        "pidRequestIntervalSeconds": number,
        "requestMessageId": number,
        "useExtendedIds": boolean
      },
      "type": "string",
      "vehicleMiddleware": {
        "name": "string",
        "protocolName": "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.

networkInterfaces

A list of information about network interfaces.

Type: Array of [NetworkInterface](#) objects

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

nextToken

The token to retrieve the next set of results, or null if there are no more results.

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListDecoderManifests

Lists decoder manifests.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "modelManifestArn": "string",
  "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

modelManifestArn

The Amazon Resource Name (ARN) of a vehicle model (model manifest) associated with the decoder manifest.

Type: String

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "summaries": [
    {
      "arn": "string",
      "creationTime": number,
      "description": "string",
      "lastModificationTime": number,
      "message": "string",
      "modelManifestArn": "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.

nextToken

The token to retrieve the next set of results, or `null` if there are no more results.

Type: String

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

[summaries](#)

A list of information about each decoder manifest.

Type: Array of [DecoderManifestSummary](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListDecoderManifestSignals

A list of information about signal decoders specified in a decoder manifest.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "name": "string",
  "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

name

The name of the decoder manifest to list information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Required: Yes

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "signalDecoders": [
    {
      "canSignal": {
        "factor": number,
        "isBigEndian": boolean,
        "isSigned": boolean,
        "length": number,
        "messageId": number,
        "name": "string",
        "offset": number,
        "startBit": number
      },
      "fullyQualified_name": "string",
      "interfaceId": "string",
      "messageSignal": {
        "structuredMessage": { ... },
        "topicName": "string"
      },
      "obdSignal": {
        "bitMaskLength": number,
```

```
    "bitRightShift": number,
    "byteLength": number,
    "offset": number,
    "pid": number,
    "pidResponseLength": number,
    "scaling": number,
    "serviceMode": number,
    "startByte": number
  },
  "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 retrieve the next set of results, or null if there are no more results.

Type: String

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

signalDecoders

Information about a list of signals to decode.

Type: Array of [SignalDecoder](#) objects

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListFleets

Retrieves information for each created fleet in an AWS account.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{  
  "maxResults": number,  
  "nextToken": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "fleetSummaries": [
    {
      "arn": "string",
      "creationTime": number,
      "description": "string",
      "id": "string",
      "lastModificationTime": number,
      "signalCatalogArn": "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.

fleetSummaries

A list of information for each fleet.

Type: Array of [FleetSummary](#) objects

nextToken

The token to retrieve the next set of results, or null if there are no more results.

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListFleetsForVehicle

Retrieves a list of IDs for all fleets that the vehicle is associated with.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string",
  "vehicleName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

vehicleName

The ID of the vehicle to retrieve information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Required: Yes

Response Syntax

```
{  
  "fleets": [ "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.

fleets

A list of fleet IDs that the vehicle is associated with.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 100.

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

nextToken

The token to retrieve the next set of results, or null if there are no more results.

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListModelManifestNodes

Lists information about nodes specified in a vehicle model (model manifest).

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{  
  "maxResults": number,  
  "name": "string",  
  "nextToken": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

name

The name of the vehicle model to list information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Required: Yes

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "nodes": [
    { ... }
  ]
}
```

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 retrieve the next set of results, or `null` if there are no more results.

Type: String

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

nodes

A list of information about nodes.

Type: Array of [Node](#) objects

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListModelManifests

Retrieves a list of vehicle models (model manifests).

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string",
  "signalCatalogArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

signalCatalogArn

The ARN of a signal catalog. If you specify a signal catalog, only the vehicle models associated with it are returned.

Type: String

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "summaries": [
    {
      "arn": "string",
      "creationTime": number,
      "description": "string",
      "lastModificationTime": number,
      "name": "string",
      "signalCatalogArn": "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.

nextToken

The token to retrieve the next set of results, or null if there are no more results.

Type: String

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

[summaries](#)

A list of information about vehicle models.

Type: Array of [ModelManifestSummary](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListSignalCatalogNodes

Lists of information about the signals (nodes) specified in a signal catalog.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "name": "string",
  "nextToken": "string",
  "signalNodeType": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

name

The name of the signal catalog to list information about.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

signalNodeType

The type of node in the signal catalog.

Type: String

Valid Values: SENSOR | ACTUATOR | ATTRIBUTE | BRANCH | CUSTOM_STRUCT | CUSTOM_PROPERTY

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "nodes": [
    { ... }
  ]
}
```

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 retrieve the next set of results, or null if there are no more results.

Type: String

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

nodes

A list of information about nodes.

Type: Array of [Node](#) objects

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListSignalCatalogs

Lists all the created signal catalogs in an AWS account.

You can use [ListSignalCatalogNodes](#) to list information about each signal (node) specified in a signal catalog.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a `nextToken` pagination token is returned in the response. To retrieve the next set of results, reissue the

search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "summaries": [
    {
      "arn": "string",
      "creationTime": number,
      "lastModificationTime": 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 retrieve the next set of results, or null if there are no more results.

Type: String

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

summaries

A list of information about each signal catalog.

Type: Array of [SignalCatalogSummary](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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

```
{  
  "ResourceARN": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ResourceARN

The ARN of the resource.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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 list of tags assigned to the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListVehicles

Retrieves a list of summaries of created vehicles.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{
  "attributeNames": [ "string" ],
  "attributeValues": [ "string" ],
  "maxResults": number,
  "modelManifestArn": "string",
  "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

attributeNames

The fully qualified names of the attributes. For example, the fully qualified name of an attribute might be `Vehicle.Body.Engine.Type`.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

attributeValues

Static information about a vehicle attribute value in string format. For example:

"1.3 L R2"

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

modelManifestArn

The Amazon Resource Name (ARN) of a vehicle model (model manifest). You can use this optional parameter to list only the vehicles created from a certain vehicle model.

Type: String

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a nextToken pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "vehicleSummaries": [
    {
      "arn": "string",
      "attributes": {
        "string": "string"
      },
      "creationTime": number,
      "decoderManifestArn": "string",
      "lastModificationTime": number,
      "modelManifestArn": "string",
      "vehicleName": "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 retrieve the next set of results, or null if there are no more results.

Type: String

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

vehicleSummaries

A list of vehicles and information about them.

Type: Array of [VehicleSummary](#) objects

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

ListVehiclesInFleet

Retrieves a list of summaries of all vehicles associated with a fleet.

Note

This API operation uses pagination. Specify the `nextToken` parameter in the request to return more results.

Request Syntax

```
{  
  "fleetId": "string",  
  "maxResults": number,  
  "nextToken": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

fleetId

The ID of a fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

maxResults

The maximum number of items to return, between 1 and 100, inclusive.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

A pagination token for the next set of results.

If the results of a search are large, only a portion of the results are returned, and a nextToken pagination token is returned in the response. To retrieve the next set of results, reissue the search request and include the returned token. When all results have been returned, the response does not contain a pagination token value.

Type: String

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

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "vehicles": [ "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 retrieve the next set of results, or null if there are no more results.

Type: String

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

vehicles

A list of vehicles associated with the fleet.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

PutEncryptionConfiguration

Creates or updates the encryption configuration. AWS IoT FleetWise can encrypt your data and resources using an AWS managed key. Or, you can use a KMS key that you own and manage. For more information, see [Data encryption](#) in the *AWS IoT FleetWise Developer Guide*.

Request Syntax

```
{
  "encryptionType": "string",
  "kmsKeyId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[encryptionType](#)

The type of encryption. Choose KMS_BASED_ENCRYPTION to use a KMS key or FLEETWISE_DEFAULT_ENCRYPTION to use an AWS managed key.

Type: String

Valid Values: KMS_BASED_ENCRYPTION | FLEETWISE_DEFAULT_ENCRYPTION

Required: Yes

[kmsKeyId](#)

The ID of the KMS key that is used for encryption.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

Response Syntax

```
{
  "encryptionStatus": "string",
  "encryptionType": "string",
  "kmsKeyId": "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.

encryptionStatus

The encryption status.

Type: String

Valid Values: PENDING | SUCCESS | FAILURE

encryptionType

The type of encryption. Set to KMS_BASED_ENCRYPTION to use an KMS key that you own and manage. Set to FLEETWISE_DEFAULT_ENCRYPTION to use an AWS managed key that is owned by the AWS IoT FleetWise service account.

Type: String

Valid Values: KMS_BASED_ENCRYPTION | FLEETWISE_DEFAULT_ENCRYPTION

kmsKeyId

The ID of the KMS key that is used for encryption.

Type: String

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

PutLoggingOptions

Creates or updates the logging option.

Request Syntax

```
{
  "cloudWatchLogDelivery": {
    "logGroupName": "string",
    "logType": "string"
  }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[cloudWatchLogDelivery](#)

Creates or updates the log delivery option to Amazon CloudWatch Logs.

Type: [CloudWatchLogDeliveryOptions](#) object

Required: Yes

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

RegisterAccount

Important

This API operation contains deprecated parameters. Register your account again without the `Timestream resources` parameter so that AWS IoT FleetWise can remove the Timestream metadata stored. You should then pass the data destination into the [CreateCampaign](#) API operation.

You must delete any existing campaigns that include an empty data destination before you register your account again. For more information, see the [DeleteCampaign](#) API operation. If you want to delete the Timestream inline policy from the service-linked role, such as to mitigate an overly permissive policy, you must first delete any existing campaigns. Then delete the service-linked role and register your account again to enable CloudWatch metrics. For more information, see [DeleteServiceLinkedRole](#) in the *AWS Identity and Access Management API Reference*.

Registers your AWS account, IAM, and Amazon Timestream resources so AWS IoT FleetWise can transfer your vehicle data to the AWS Cloud. For more information, including step-by-step procedures, see [Setting up AWS IoT FleetWise](#).

Note

An AWS account is **not** the same thing as a "user." An [AWS user](#) is an identity that you create using AWS Identity and Access Management (IAM) and takes the form of either an [IAM user](#) or an [IAM role, both with credentials](#). A single AWS account can, and typically does, contain many users and roles.

Request Syntax

```
{
  "iamResources": {
    "roleArn": "string"
  },
  "timestreamResources": {
    "timestreamDatabaseName": "string",
    "timestreamTableName": "string"
  }
}
```

```
}  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[iamResources](#)

This parameter has been deprecated.

The IAM resource that allows AWS IoT FleetWise to send data to Amazon Timestream.

Type: [iamResources](#) object

Required: No

[timestreamResources](#)

This parameter has been deprecated.

The registered Amazon Timestream resources that AWS IoT FleetWise edge agent software can transfer your vehicle data to.

Type: [TimestreamResources](#) object

Required: No

Response Syntax

```
{  
  "creationTime": number,  
  "iamResources": {  
    "roleArn": "string"  
  },  
  "lastModificationTime": number,  
  "registerAccountStatus": "string",  
  "timestreamResources": {  
    "timestreamDatabaseName": "string",  
    "timestreamTableName": "string"  
  }  
}
```

```
}  
}
```

Response Elements

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

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

creationTime

The time the account was registered, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

iamResources

The registered IAM resource that allows AWS IoT FleetWise to send data to Amazon Timestream.

Type: [iamResources](#) object

lastModificationTime

The time this registration was last updated, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

registerAccountStatus

The status of registering your AWS account, IAM role, and Timestream resources.

Type: String

Valid Values: REGISTRATION_PENDING | REGISTRATION_SUCCESS | REGISTRATION_FAILURE

timestreamResources

The registered Amazon Timestream resources that AWS IoT FleetWise edge agent software can transfer your vehicle data to.

Type: [TimestreamResources](#) object

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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 to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ResourceARN

The ARN of the resource.

Type: String

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

Required: Yes

Tags

The new or modified tags for the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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 the given tags (metadata) from the resource.

Request Syntax

```
{  
  "ResourceARN": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[ResourceARN](#)

The ARN of the resource.

Type: String

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

Required: Yes

[TagKeys](#)

A list of the keys of the tags to be removed from the resource.

Type: Array of strings

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

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

Required: Yes

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

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateCampaign

Updates a campaign.

Request Syntax

```
{  
  "action": "string",  
  "dataExtraDimensions": [ "string" ],  
  "description": "string",  
  "name": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

action

Specifies how to update a campaign. The action can be one of the following:

- APPROVE - To approve delivering a data collection scheme to vehicles.
- SUSPEND - To suspend collecting signal data. The campaign is deleted from vehicles and all vehicles in the suspended campaign will stop sending data.
- RESUME - To reactivate the SUSPEND campaign. The campaign is redeployed to all vehicles and the vehicles will resume sending data.
- UPDATE - To update a campaign.

Type: String

Valid Values: APPROVE | SUSPEND | RESUME | UPDATE

Required: Yes

dataExtraDimensions

A list of vehicle attributes to associate with a signal.

Default: An empty array

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

description

The description of the campaign.

Type: String

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

Pattern: [^\u0000-\u001F\u007F]+

Required: No

name

The name of the campaign to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:]+

Required: Yes

Response Syntax

```
{
  "arn": "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 Amazon Resource Name (ARN) of the campaign.

Type: String

name

The name of the updated campaign.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\!]+

status

The state of a campaign. The status can be one of:

- **CREATING** - AWS IoT FleetWise is processing your request to create the campaign.
- **WAITING_FOR_APPROVAL** - After a campaign is created, it enters the **WAITING_FOR_APPROVAL** state. To allow AWS IoT FleetWise to deploy the campaign to the target vehicle or fleet, use the [UpdateCampaign](#) API operation to approve the campaign.
- **RUNNING** - The campaign is active.
- **SUSPENDED** - The campaign is suspended. To resume the campaign, use the [UpdateCampaign](#) API operation.

Type: String

Valid Values: CREATING | WAITING_FOR_APPROVAL | RUNNING | SUSPENDED

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateDecoderManifest

Updates a decoder manifest.

A decoder manifest can only be updated when the status is DRAFT. Only ACTIVE decoder manifests can be associated with vehicles.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "networkInterfacesToAdd": [
    {
      "canInterface": {
        "name": "string",
        "protocolName": "string",
        "protocolVersion": "string"
      },
      "interfaceId": "string",
      "obdInterface": {
        "dtcRequestIntervalSeconds": number,
        "hasTransmissionEcu": boolean,
        "name": "string",
        "obdStandard": "string",
        "pidRequestIntervalSeconds": number,
        "requestMessageId": number,
        "useExtendedIds": boolean
      },
      "type": "string",
      "vehicleMiddleware": {
        "name": "string",
        "protocolName": "string"
      }
    }
  ],
  "networkInterfacesToRemove": [ "string" ],
  "networkInterfacesToUpdate": [
    {
      "canInterface": {
        "name": "string",
        "protocolName": "string",
        "protocolVersion": "string"
      }
    }
  ]
}
```

```

    },
    "interfaceId": "string",
    "obdInterface": {
      "dtcRequestIntervalSeconds": number,
      "hasTransmissionEcu": boolean,
      "name": "string",
      "obdStandard": "string",
      "pidRequestIntervalSeconds": number,
      "requestMessageId": number,
      "useExtendedIds": boolean
    },
    "type": "string",
    "vehicleMiddleware": {
      "name": "string",
      "protocolName": "string"
    }
  }
],
"signalDecodersToAdd": [
  {
    "canSignal": {
      "factor": number,
      "isBigEndian": boolean,
      "isSigned": boolean,
      "length": number,
      "messageId": number,
      "name": "string",
      "offset": number,
      "startBit": number
    },
    "fullyQualifiedName": "string",
    "interfaceId": "string",
    "messageSignal": {
      "structuredMessage": { ... },
      "topicName": "string"
    },
    "obdSignal": {
      "bitMaskLength": number,
      "bitRightShift": number,
      "byteLength": number,
      "offset": number,
      "pid": number,
      "pidResponseLength": number,
      "scaling": number,

```

```
        "serviceMode": number,
        "startByte": number
    },
    "type": "string"
}
],
"signalDecodersToRemove": [ "string" ],
"signalDecodersToUpdate": [
{
    "canSignal": {
        "factor": number,
        "isBigEndian": boolean,
        "isSigned": boolean,
        "length": number,
        "messageId": number,
        "name": "string",
        "offset": number,
        "startBit": number
    },
    "fullyQualified_name": "string",
    "interfaceId": "string",
    "messageSignal": {
        "structuredMessage": { ... },
        "topicName": "string"
    },
    "obdSignal": {
        "bitMaskLength": number,
        "bitRightShift": number,
        "byteLength": number,
        "offset": number,
        "pid": number,
        "pidResponseLength": number,
        "scaling": number,
        "serviceMode": number,
        "startByte": number
    },
    "type": "string"
}
],
"status": "string"
}
```


Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the decoder manifest to update.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the decoder manifest to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Required: Yes

networkInterfacesToAdd

A list of information about the network interfaces to add to the decoder manifest.

Type: Array of [NetworkInterface](#) objects

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

Required: No

networkInterfacesToRemove

A list of network interfaces to remove from the decoder manifest.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

[networkInterfacesToUpdate](#)

A list of information about the network interfaces to update in the decoder manifest.

Type: Array of [NetworkInterface](#) objects

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

Required: No

[signalDecodersToAdd](#)

A list of information about decoding additional signals to add to the decoder manifest.

Type: Array of [SignalDecoder](#) objects

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

Required: No

[signalDecodersToRemove](#)

A list of signal decoders to remove from the decoder manifest.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

Required: No

[signalDecodersToUpdate](#)

A list of updated information about decoding signals to update in the decoder manifest.

Type: Array of [SignalDecoder](#) objects

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

Required: No

status

The state of the decoder manifest. If the status is ACTIVE, the decoder manifest can't be edited. If the status is DRAFT, you can edit the decoder manifest.

Type: String

Valid Values: ACTIVE | DRAFT | INVALID | VALIDATING

Required: No

Response Syntax

```
{
  "arn": "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 (ARN) of the updated decoder manifest.

Type: String

name

The name of the updated decoder manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\+]

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

DecoderManifestValidationException

The request couldn't be completed because it contains signal decoders with one or more validation errors.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateFleet

Updates the description of an existing fleet.

Note

If the fleet is successfully updated, AWS IoT FleetWise sends back an HTTP 200 response with an empty HTTP body.

Request Syntax

```
{  
  "description": "string",  
  "fleetId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

An updated description of the fleet.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

fleetId

The ID of the fleet to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "id": "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 (ARN) of the updated fleet.

Type: String

id

The ID of the updated fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerError

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateModelManifest

Updates a vehicle model (model manifest). If created vehicles are associated with a vehicle model, it can't be updated.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "nodesToAdd": [ "string" ],
  "nodesToRemove": [ "string" ],
  "status": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the vehicle model.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the vehicle model to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:]+`

Required: Yes

nodesToAdd

A list of `fullyQualifiedName` of nodes, which are a general abstraction of signals, to add to the vehicle model.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

nodesToRemove

A list of `fullyQualifiedName` of nodes, which are a general abstraction of signals, to remove from the vehicle model.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

status

The state of the vehicle model. If the status is `ACTIVE`, the vehicle model can't be edited. If the status is `DRAFT`, you can edit the vehicle model.

Type: String

Valid Values: `ACTIVE` | `DRAFT` | `INVALID` | `VALIDATING`

Required: No

Response Syntax

```
{
```

```
"arn": "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 (ARN) of the updated vehicle model.

Type: String

name

The name of the updated vehicle model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateSignalCatalog

Updates a signal catalog.

Request Syntax

```
{
  "description": "string",
  "name": "string",
  "nodesToAdd": [
    { ... }
  ],
  "nodesToRemove": [ "string" ],
  "nodesToUpdate": [
    { ... }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

description

A brief description of the signal catalog to update.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the signal catalog to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

nodesToAdd

A list of information about nodes to add to the signal catalog.

Type: Array of [Node](#) objects

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

Required: No

nodesToRemove

A list of fullyQualifiedNames of nodes to remove from the signal catalog.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

nodesToUpdate

A list of information about nodes to update in the signal catalog.

Type: Array of [Node](#) objects

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

Required: No

Response Syntax

```
{
  "arn": "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 ARN of the updated signal catalog.

Type: String

name

The name of the updated signal catalog.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

InvalidNodeException

The specified node type doesn't match the expected node type for a node. You can specify the node type as branch, sensor, actuator, or attribute.

HTTP Status Code: 400

InvalidSignalsException

The request couldn't be completed because it contains signals that aren't valid.

HTTP Status Code: 400

LimitExceededException

A service quota was exceeded.

HTTP Status Code: 400

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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](#)

UpdateVehicle

Updates a vehicle.

Request Syntax

```
{
  "attributes": {
    "string" : "string"
  },
  "attributeUpdateMode": "string",
  "decoderManifestArn": "string",
  "modelManifestArn": "string",
  "vehicleName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

attributes

Static information about a vehicle in a key-value pair. For example:

```
"engineType": "1.3 L R2"
```

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

attributeUpdateMode

The method the specified attributes will update the existing attributes on the vehicle.

Use `Overwrite` to replace the vehicle attributes with the specified attributes. Or use `Merge` to combine all attributes.

This is required if attributes are present in the input.

Type: String

Valid Values: Overwrite | Merge

Required: No

decoderManifestArn

The ARN of the decoder manifest associated with this vehicle.

Type: String

Required: No

modelManifestArn

The ARN of a vehicle model (model manifest) associated with the vehicle.

Type: String

Required: No

vehicleName

The unique ID of the vehicle to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

Response Syntax

```
{  
  "arn": "string",  
  "vehicleName": "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 updated vehicle.

Type: String

vehicleName

The ID of the updated vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\.]+

Errors

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

AccessDeniedException

You don't have sufficient permission to perform this action.

HTTP Status Code: 400

ConflictException

The request has conflicting operations. This can occur if you're trying to perform more than one operation on the same resource at the same time.

HTTP Status Code: 400

InternalServerErrorException

The request couldn't be completed because the server temporarily failed.

HTTP Status Code: 500

ResourceNotFoundException

The resource wasn't found.

HTTP Status Code: 400

ThrottlingException

The request couldn't be completed due to throttling.

HTTP Status Code: 400

ValidationException

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

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 FleetWise 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:

- [Actuator](#)
- [Attribute](#)
- [Branch](#)
- [CampaignSummary](#)
- [CanDbcDefinition](#)
- [CanInterface](#)
- [CanSignal](#)
- [CloudWatchLogDeliveryOptions](#)
- [CollectionScheme](#)
- [ConditionBasedCollectionScheme](#)
- [CreateVehicleError](#)
- [CreateVehicleRequestItem](#)
- [CreateVehicleResponseItem](#)
- [CustomProperty](#)
- [CustomStruct](#)
- [DataDestinationConfig](#)
- [DecoderManifestSummary](#)
- [FleetSummary](#)
- [FormattedVss](#)
- [IamRegistrationResponse](#)

- [IamResources](#)
- [InvalidNetworkInterface](#)
- [InvalidSignal](#)
- [InvalidSignalDecoder](#)
- [MessageSignal](#)
- [ModelManifestSummary](#)
- [NetworkFileDefinition](#)
- [NetworkInterface](#)
- [Node](#)
- [NodeCounts](#)
- [ObdInterface](#)
- [ObdSignal](#)
- [PrimitiveMessageDefinition](#)
- [ROS2PrimitiveMessageDefinition](#)
- [S3Config](#)
- [Sensor](#)
- [SignalCatalogSummary](#)
- [SignalDecoder](#)
- [SignalInformation](#)
- [StructuredMessage](#)
- [StructuredMessageFieldNameAndDataTypePair](#)
- [StructuredMessageListDefinition](#)
- [Tag](#)
- [TimeBasedCollectionScheme](#)
- [TimestreamConfig](#)
- [TimestreamRegistrationResponse](#)
- [TimestreamResources](#)
- [UpdateVehicleError](#)
- [UpdateVehicleRequestItem](#)
- [UpdateVehicleResponseItem](#)

- [ValidationExceptionField](#)
- [VehicleMiddleware](#)
- [VehicleStatus](#)
- [VehicleSummary](#)

Actuator

A signal that represents a vehicle device such as the engine, heater, and door locks. Data from an actuator reports the state of a certain vehicle device.

Note

Updating actuator data can change the state of a device. For example, you can turn on or off the heater by updating its actuator data.

Contents

dataType

The specified data type of the actuator.

Type: String

Valid Values: INT8 | UINT8 | INT16 | UINT16 | INT32 | UINT32 | INT64 | UINT64 | BOOLEAN | FLOAT | DOUBLE | STRING | UNIX_TIMESTAMP | INT8_ARRAY | UINT8_ARRAY | INT16_ARRAY | UINT16_ARRAY | INT32_ARRAY | UINT32_ARRAY | INT64_ARRAY | UINT64_ARRAY | BOOLEAN_ARRAY | FLOAT_ARRAY | DOUBLE_ARRAY | STRING_ARRAY | UNIX_TIMESTAMP_ARRAY | UNKNOWN | STRUCT | STRUCT_ARRAY

Required: Yes

fullyQualifiedName

The fully qualified name of the actuator. For example, the fully qualified name of an actuator might be `Vehicle.Front.Left.Door.Lock`.

Type: String

Required: Yes

allowedValues

A list of possible values an actuator can take.

Type: Array of strings

Required: No

assignedValue

This member has been deprecated.

A specified value for the actuator.

Type: String

Required: No

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of the actuator.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

max

The specified possible maximum value of an actuator.

Type: Double

Required: No

min

The specified possible minimum value of an actuator.

Type: Double

Required: No

structFullyQualifiedName

The fully qualified name of the struct node for the actuator if the data type of the actuator is `Struct` or `StructArray`. For example, the struct fully qualified name of an actuator might be `Vehicle.Door.LockStruct`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

unit

The scientific unit for the actuator.

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](#)

Attribute

A signal that represents static information about the vehicle, such as engine type or manufacturing date.

Contents

dataType

The specified data type of the attribute.

Type: String

Valid Values: INT8 | UINT8 | INT16 | UINT16 | INT32 | UINT32 | INT64 |
| UINT64 | BOOLEAN | FLOAT | DOUBLE | STRING | UNIX_TIMESTAMP |
INT8_ARRAY | UINT8_ARRAY | INT16_ARRAY | UINT16_ARRAY | INT32_ARRAY |
UINT32_ARRAY | INT64_ARRAY | UINT64_ARRAY | BOOLEAN_ARRAY | FLOAT_ARRAY
| DOUBLE_ARRAY | STRING_ARRAY | UNIX_TIMESTAMP_ARRAY | UNKNOWN | STRUCT
| STRUCT_ARRAY

Required: Yes

fullyQualifiedName

The fully qualified name of the attribute. For example, the fully qualified name of an attribute might be `Vehicle.Body.Engine.Type`.

Type: String

Required: Yes

allowedValues

A list of possible values an attribute can be assigned.

Type: Array of strings

Required: No

assignedValue

This member has been deprecated.

A specified value for the attribute.

Type: String

Required: No

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

defaultValue

The default value of the attribute.

Type: String

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of the attribute.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

max

The specified possible maximum value of the attribute.

Type: Double

Required: No

min

The specified possible minimum value of the attribute.

Type: Double

Required: No

unit

The scientific unit for the attribute.

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](#)

Branch

A group of signals that are defined in a hierarchical structure.

Contents

fullyQualifiedName

The fully qualified name of the branch. For example, the fully qualified name of a branch might be `Vehicle.Body.Engine`.

Type: String

Required: Yes

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of the branch.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

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](#)

CampaignSummary

Information about a campaign.

You can use the [ListCampaigns](#) API operation to return this information about multiple created campaigns.

Contents

creationTime

The time the campaign was created.

Type: Timestamp

Required: Yes

lastModificationTime

The last time the campaign was modified.

Type: Timestamp

Required: Yes

arn

The Amazon Resource Name (ARN) of a campaign.

Type: String

Required: No

description

The description of the campaign.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of a campaign.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: No

signalCatalogArn

The ARN of the signal catalog associated with the campaign.

Type: String

Required: No

status

The state of a campaign. The status can be one of the following:

- **CREATING** - AWS IoT FleetWise is processing your request to create the campaign.
- **WAITING_FOR_APPROVAL** - After a campaign is created, it enters the **WAITING_FOR_APPROVAL** state. To allow AWS IoT FleetWise to deploy the campaign to the target vehicle or fleet, use the [UpdateCampaign](#) API operation to approve the campaign.
- **RUNNING** - The campaign is active.
- **SUSPENDED** - The campaign is suspended. To resume the campaign, use the [UpdateCampaign](#) API operation.

Type: String

Valid Values: CREATING | WAITING_FOR_APPROVAL | RUNNING | SUSPENDED

Required: No

targetArn

The ARN of a vehicle or fleet to which the campaign is deployed.

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](#)

CanDbcDefinition

Configurations used to create a decoder manifest.

Contents

canDbcFiles

A list of DBC files. You can upload only one DBC file for each network interface and specify up to five (inclusive) files in the list. The DBC file can be a maximum size of 200 MB.

Type: Array of Base64-encoded binary data objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 0. Maximum length of 200000000.

Required: Yes

networkInterface

Contains information about a network interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: Yes

signalsMap

Pairs every signal specified in your vehicle model with a signal decoder.

Type: String to string map

Required: No

See Also

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

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

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

CanInterface

A single controller area network (CAN) device interface.

Contents

name

The unique name of the interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

protocolName

The name of the communication protocol for the interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

protocolVersion

The version of the communication protocol for the interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

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](#)

CanSignal

Information about a single controller area network (CAN) signal and the messages it receives and transmits.

Contents

factor

A multiplier used to decode the CAN message.

Type: Double

Required: Yes

isBigEndian

Whether the byte ordering of a CAN message is big-endian.

Type: Boolean

Required: Yes

isSigned

Whether the message data is specified as a signed value.

Type: Boolean

Required: Yes

length

How many bytes of data are in the message.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

messageId

The ID of the message.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

offset

The offset used to calculate the signal value. Combined with factor, the calculation is $value = raw_value * factor + offset$.

Type: Double

Required: Yes

startBit

Indicates the beginning of the CAN signal. This should always be the least significant bit (LSB).

This value might be different from the value in a DBC file. For little endian signals, `startBit` is the same value as in the DBC file. For big endian signals in a DBC file, the start bit is the most significant bit (MSB). You will have to calculate the LSB instead and pass it as the `startBit`.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

name

The name of the signal.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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](#)

CloudWatchLogDeliveryOptions

The log delivery option to send data to Amazon CloudWatch Logs.

Contents

logType

The type of log to send data to Amazon CloudWatch Logs.

Type: String

Valid Values: OFF | ERROR

Required: Yes

logGroupName

The Amazon CloudWatch Logs group the operation sends data to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

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](#)

CollectionScheme

Specifies what data to collect and how often or when to collect it.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

conditionBasedCollectionScheme

Information about a collection scheme that uses a simple logical expression to recognize what data to collect.

Type: [ConditionBasedCollectionScheme](#) object

Required: No

timeBasedCollectionScheme

Information about a collection scheme that uses a time period to decide how often to collect data.

Type: [TimeBasedCollectionScheme](#) 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](#)

ConditionBasedCollectionScheme

Information about a collection scheme that uses a simple logical expression to recognize what data to collect.

Contents

expression

The logical expression used to recognize what data to collect. For example, `$variable. `Vehicle.OutsideAirTemperature` >= 105.0`.

Type: String

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

Required: Yes

conditionLanguageVersion

Specifies the version of the conditional expression language.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

minimumTriggerIntervalMs

The minimum duration of time between two triggering events to collect data, in milliseconds.

Note

If a signal changes often, you might want to collect data at a slower rate.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 4294967295.

Required: No

triggerMode

Whether to collect data for all triggering events (ALWAYS). Specify (RISING_EDGE), or specify only when the condition first evaluates to false. For example, triggering on "AirbagDeployed"; Users aren't interested on triggering when the airbag is already exploded; they only care about the change from not deployed => deployed.

Type: String

Valid Values: ALWAYS | RISING_EDGE

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](#)

CreateVehicleError

An HTTP error resulting from creating a vehicle.

Contents

code

An HTTP error code.

Type: String

Required: No

message

A description of the HTTP error.

Type: String

Required: No

vehicleName

The ID of the vehicle with the error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\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](#)

CreateVehicleRequestItem

Information about the vehicle to create.

Contents

decoderManifestArn

The Amazon Resource Name (ARN) of a decoder manifest associated with the vehicle to create.

Type: String

Required: Yes

modelManifestArn

The ARN of the vehicle model (model manifest) to create the vehicle from.

Type: String

Required: Yes

vehicleName

The unique ID of the vehicle to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\]+`

Required: Yes

associationBehavior

An option to create a new AWS IoT thing when creating a vehicle, or to validate an existing thing as a vehicle.

Type: String

Valid Values: `CreateIotThing` | `ValidateIotThingExists`

Required: No

attributes

Static information about a vehicle in a key-value pair. For example: "engine Type" : "v6"

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

tags

Metadata which can be used to manage the vehicle.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 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](#)

CreateVehicleResponseItem

Information about a created vehicle.

Contents

arn

The ARN of the created vehicle.

Type: String

Required: No

thingArn

The ARN of a created or validated AWS IoT thing.

Type: String

Required: No

vehicleName

The unique ID of the vehicle to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\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](#)

CustomProperty

Represents a member of the complex data structure. The data type of the property can be either primitive or another `struct`.

Contents

dataType

The data type for the custom property.

Type: String

Valid Values: INT8 | UINT8 | INT16 | UINT16 | INT32 | UINT32 | INT64 | UINT64 | BOOLEAN | FLOAT | DOUBLE | STRING | UNIX_TIMESTAMP | INT8_ARRAY | UINT8_ARRAY | INT16_ARRAY | UINT16_ARRAY | INT32_ARRAY | UINT32_ARRAY | INT64_ARRAY | UINT64_ARRAY | BOOLEAN_ARRAY | FLOAT_ARRAY | DOUBLE_ARRAY | STRING_ARRAY | UNIX_TIMESTAMP_ARRAY | UNKNOWN | STRUCT | STRUCT_ARRAY

Required: Yes

fullyQualifiedName

The fully qualified name of the custom property. For example, the fully qualified name of a custom property might be `ComplexDataTypes.VehicleDataTypes.SVMCamera.FPS`.

Type: String

Required: Yes

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

dataEncoding

Indicates whether the property is binary data.

Type: String

Valid Values: BINARY | TYPED

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of the custom property.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

structFullyQualifiedName

The fully qualified name of the struct node for the custom property if the data type of the custom property is `Struct` or `StructArray`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

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](#)

CustomStruct

The custom structure represents a complex or higher-order data structure.

Contents

fullyQualifiedName

The fully qualified name of the custom structure. For example, the fully qualified name of a custom structure might be `ComplexDataTypes.VehicleDataTypes.SVMCamera`.

Type: String

Required: Yes

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of the custom structure.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

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](#)

DataDestinationConfig

The destination where the AWS IoT FleetWise campaign sends data. You can send data to be stored in Amazon S3 or Amazon Timestream.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

s3Config

The Amazon S3 bucket where the AWS IoT FleetWise campaign sends data.

Type: [S3Config](#) object

Required: No

timestreamConfig

The Amazon Timestream table where the campaign sends data.

Type: [TimestreamConfig](#) 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](#)

DecoderManifestSummary

Information about a created decoder manifest. You can use the [ListDecoderManifests](#) API operation to return this information about multiple decoder manifests.

Contents

creationTime

The time the decoder manifest was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

lastModificationTime

The time the decoder manifest was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

arn

The ARN of a vehicle model (model manifest) associated with the decoder manifest.

Type: String

Required: No

description

A brief description of the decoder manifest.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

message

The detailed message for the decoder manifest. When a decoder manifest is in an `INVALID` status, the message contains detailed reason and help information.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

modelManifestArn

The ARN of a vehicle model (model manifest) associated with the decoder manifest.

Type: String

Required: No

name

The name of the decoder manifest.

Type: String

Required: No

status

The state of the decoder manifest. If the status is `ACTIVE`, the decoder manifest can't be edited. If the status is marked `DRAFT`, you can edit the decoder manifest.

Type: String

Valid Values: `ACTIVE` | `DRAFT` | `INVALID` | `VALIDATING`

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](#)

FleetSummary

Information about a fleet.

You can use the [ListFleets](#) API operation to return this information about multiple fleets.

Contents

arn

The Amazon Resource Name (ARN) of the fleet.

Type: String

Required: Yes

creationTime

The time the fleet was created, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

id

The unique ID of the fleet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: Yes

signalCatalogArn

The ARN of the signal catalog associated with the fleet.

Type: String

Required: Yes

description

A brief description of the fleet.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

lastModificationTime

The time the fleet was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

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](#)

FormattedVss

[Vehicle Signal Specification \(VSS\)](#) is a precise language used to describe and model signals in vehicle networks. The JSON file collects signal specifications in a VSS format.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

vssJson

Provides the VSS in JSON format.

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](#)

IamRegistrationResponse

Information about registering an AWS Identity and Access Management (IAM) resource so AWS IoT FleetWise edge agent software can transfer your vehicle data to Amazon Timestream.

Contents

registrationStatus

The status of registering your IAM resource. The status can be one of `REGISTRATION_SUCCESS`, `REGISTRATION_PENDING`, `REGISTRATION_FAILURE`.

Type: String

Valid Values: `REGISTRATION_PENDING` | `REGISTRATION_SUCCESS` | `REGISTRATION_FAILURE`

Required: Yes

roleArn

The Amazon Resource Name (ARN) of the IAM role to register.

Type: String

Required: Yes

errorMessage

A message associated with a registration error.

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](#)

IamResources

The IAM resource that enables AWS IoT FleetWise edge agent software to send data to Amazon Timestream.

For more information, see [IAM roles](#) in the *AWS Identity and Access Management User Guide*.

Contents

roleArn

The Amazon Resource Name (ARN) of the IAM resource that allows AWS IoT FleetWise to send data to Amazon Timestream. For example, `arn:aws:iam::123456789012:role/SERVICE-ROLE-ARN`.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):iam::(\d{12})?:(role((\u002F)|(\u002F[\u0021-\u007F]+\u002F))[\w+=,.\u002D]+)`

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](#)

InvalidNetworkInterface

A reason a vehicle network interface isn't valid.

Contents

interfaceId

The ID of the interface that isn't valid.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

reason

A message about why the interface isn't valid.

Type: String

Valid Values: DUPLICATE_NETWORK_INTERFACE | CONFLICTING_NETWORK_INTERFACE | NETWORK_INTERFACE_TO_ADD_ALREADY_EXISTS | CAN_NETWORK_INTERFACE_INFO_IS_NULL | OBD_NETWORK_INTERFACE_INFO_IS_NULL | NETWORK_INTERFACE_TO_REMOVE_ASSOCIATED_WITH_SIGNALS | VEHICLE_MIDDLEWARE_NETWORK_INTERFACE_INFO_IS_NULL

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](#)

InvalidSignal

A reason that a signal isn't valid.

Contents

name

The name of the signal that isn't valid.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Required: No

reason

A message about why the signal isn't valid.

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](#)

InvalidSignalDecoder

A reason that a signal decoder isn't valid.

Contents

hint

The possible cause for the invalid signal decoder.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of a signal decoder that isn't valid.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Required: No

reason

A message about why the signal decoder isn't valid.

Type: String

Valid Values: DUPLICATE_SIGNAL | CONFLICTING_SIGNAL |
SIGNAL_TO_ADD_ALREADY_EXISTS |
SIGNAL_NOT_ASSOCIATED_WITH_NETWORK_INTERFACE |
NETWORK_INTERFACE_TYPE_INCOMPATIBLE_WITH_SIGNAL_DECODER_TYPE |
SIGNAL_NOT_IN_MODEL | CAN_SIGNAL_INFO_IS_NULL | OBD_SIGNAL_INFO_IS_NULL
| NO_DECODER_INFO_FOR_SIGNAL_IN_MODEL | MESSAGE_SIGNAL_INFO_IS_NULL
| SIGNAL_DECODER_TYPE_INCOMPATIBLE_WITH_MESSAGE_SIGNAL_TYPE |
STRUCT_SIZE_MISMATCH | NO_SIGNAL_IN_CATALOG_FOR_DECODER_SIGNAL |
SIGNAL_DECODER_INCOMPATIBLE_WITH_SIGNAL_CATALOG | EMPTY_MESSAGE_SIGNAL

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](#)

MessageSignal

The decoding information for a specific message which support higher order data types.

Contents

structuredMessage

The structured message for the message signal. It can be defined with either a `primitiveMessageDefinition`, `structuredMessageListDefinition`, or `structuredMessageDefinition` recursively.

Type: [StructuredMessage](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

topicName

The topic name for the message signal. It corresponds to topics in ROS 2.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `[a-zA-Z0-9_\-#\:\./]+`

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](#)

ModelManifestSummary

Information about a vehicle model (model manifest). You can use the [ListModelManifests](#) API operation to return this information about multiple vehicle models.

Contents

creationTime

The time the vehicle model was created, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

lastModificationTime

The time the vehicle model was last updated, in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

arn

The Amazon Resource Name (ARN) of the vehicle model.

Type: String

Required: No

description

A brief description of the vehicle model.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

name

The name of the vehicle model.

Type: String

Required: No

signalCatalogArn

The ARN of the signal catalog associated with the vehicle model.

Type: String

Required: No

status

The state of the vehicle model. If the status is ACTIVE, the vehicle model can't be edited. If the status is DRAFT, you can edit the vehicle model.

Type: String

Valid Values: ACTIVE | DRAFT | INVALID | VALIDATING

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](#)

NetworkFileDefinition

Specifications for defining a vehicle network.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

canDbc

Information, including CAN DBC files, about the configurations used to create a decoder manifest.

Type: [CanDbcDefinition](#) 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](#)

NetworkInterface

Represents a node and its specifications in an in-vehicle communication network. All signal decoders must be associated with a network node.

To return this information about all the network interfaces specified in a decoder manifest, use the [ListDecoderManifestNetworkInterfaces](#) API operation.

Contents

interfaceId

The ID of the network interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: Yes

type

The network protocol for the vehicle. For example, CAN_SIGNAL specifies a protocol that defines how data is communicated between electronic control units (ECUs). OBD_SIGNAL specifies a protocol that defines how self-diagnostic data is communicated between ECUs.

Type: String

Valid Values: CAN_INTERFACE | OBD_INTERFACE | VEHICLE_MIDDLEWARE

Required: Yes

canInterface

Information about a network interface specified by the Controller Area Network (CAN) protocol.

Type: [CanInterface](#) object

Required: No

obdInterface

Information about a network interface specified by the On-board diagnostic (OBD) II protocol.

Type: [ObdInterface](#) object

Required: No

vehicleMiddleware

The vehicle middleware defined as a type of network interface. Examples of vehicle middleware include ROS2 and SOME/IP.

Type: [VehicleMiddleware](#) 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](#)

Node

A general abstraction of a signal. A node can be specified as an actuator, attribute, branch, or sensor.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

actuator

Information about a node specified as an actuator.

Note

An actuator is a digital representation of a vehicle device.

Type: [Actuator](#) object

Required: No

attribute

Information about a node specified as an attribute.

Note

An attribute represents static information about a vehicle.

Type: [Attribute](#) object

Required: No

branch

Information about a node specified as a branch.

Note

A group of signals that are defined in a hierarchical structure.

Type: [Branch](#) object

Required: No

property

Represents a member of the complex data structure. The datatype of the property can be either primitive or another struct.

Type: [CustomProperty](#) object

Required: No

sensor

An input component that reports the environmental condition of a vehicle.

Note

You can collect data about fluid levels, temperatures, vibrations, or battery voltage from sensors.

Type: [Sensor](#) object

Required: No

struct

Represents a complex or higher-order data structure.

Type: [CustomStruct](#) 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](#)

NodeCounts

Information about the number of nodes and node types in a vehicle network.

Contents

totalActuators

The total number of nodes in a vehicle network that represent actuators.

Type: Integer

Required: No

totalAttributes

The total number of nodes in a vehicle network that represent attributes.

Type: Integer

Required: No

totalBranches

The total number of nodes in a vehicle network that represent branches.

Type: Integer

Required: No

totalNodes

The total number of nodes in a vehicle network.

Type: Integer

Required: No

totalProperties

The total properties for the node.

Type: Integer

Required: No

totalSensors

The total number of nodes in a vehicle network that represent sensors.

Type: Integer

Required: No

totalStructs

The total structure for the node.

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](#)

ObdInterface

A network interface that specifies the On-board diagnostic (OBD) II network protocol.

Contents

name

The name of the interface.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

requestMessageId

The ID of the message requesting vehicle data.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

dtcRequestIntervalSeconds

The maximum number message requests per diagnostic trouble code per second.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

hasTransmissionEcu

Whether the vehicle has a transmission control module (TCM).

Type: Boolean

Required: No

obdStandard

The standard OBD II PID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

pidRequestIntervalSeconds

The maximum number message requests per second.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

useExtendedIds

Whether to use extended IDs in the message.

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](#)

ObdSignal

Information about signal messages using the on-board diagnostics (OBD) II protocol in a vehicle.

Contents

byteLength

The length of a message.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: Yes

offset

The offset used to calculate the signal value. Combined with scaling, the calculation is $value = raw_value * scaling + offset$.

Type: Double

Required: Yes

pid

The diagnostic code used to request data from a vehicle for this signal.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

pidResponseLength

The length of the requested data.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

scaling

A multiplier used to decode the message.

Type: Double

Required: Yes

serviceMode

The mode of operation (diagnostic service) in a message.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

startByte

Indicates the beginning of the message.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

bitMaskLength

The number of bits to mask in a message.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8.

Required: No

bitRightShift

The number of positions to shift bits in the message.

Type: Integer

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](#)

PrimitiveMessageDefinition

Represents a primitive type node of the complex data structure.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

ros2PrimitiveMessageDefinition

Information about a PrimitiveMessage using a ROS 2 compliant primitive type message of the complex data structure.

Type: [ROS2PrimitiveMessageDefinition](#) 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](#)

ROS2PrimitiveMessageDefinition

Represents a ROS 2 compliant primitive type message of the complex data structure.

Contents

primitiveType

The primitive type (integer, floating point, boolean, etc.) for the ROS 2 primitive message definition.

Type: String

Valid Values: BOOL | BYTE | CHAR | FLOAT32 | FLOAT64 | INT8 | UINT8 | INT16 | UINT16 | INT32 | UINT32 | INT64 | UINT64 | STRING | WSTRING

Required: Yes

offset

The offset used to calculate the signal value. Combined with scaling, the calculation is $value = raw_value * scaling + offset$.

Type: Double

Required: No

scaling

A multiplier used to decode the message.

Type: Double

Required: No

upperBound

An optional attribute specifying the upper bound for STRING and WSTRING.

Type: Long

Valid Range: Minimum value of 0. Maximum value 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](#)

S3Config

The Amazon S3 bucket where the AWS IoT FleetWise campaign sends data. Amazon S3 is an object storage service that stores data as objects within buckets. For more information, see [Creating, configuring, and working with Amazon S3 buckets](#) in the *Amazon Simple Storage Service User Guide*.

Contents

bucketArn

The Amazon Resource Name (ARN) of the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 16. Maximum length of 100.

Pattern: `arn:(aws[a-zA-Z0-9-]*):s3:::.+`

Required: Yes

dataFormat

Specify the format that files are saved in the Amazon S3 bucket. You can save files in an Apache Parquet or JSON format.

- Parquet - Store data in a columnar storage file format. Parquet is optimal for fast data retrieval and can reduce costs. This option is selected by default.
- JSON - Store data in a standard text-based JSON file format.

Type: String

Valid Values: JSON | PARQUET

Required: No

prefix

(Optional) Enter an S3 bucket prefix. The prefix is the string of characters after the bucket name and before the object name. You can use the prefix to organize data stored in Amazon S3 buckets. For more information, see [Organizing objects using prefixes](#) in the *Amazon Simple Storage Service User Guide*.

By default, AWS IoT FleetWise sets the prefix `processed-data/year=YY/month=MM/date=DD/hour=HH/` (in UTC) to data it delivers to Amazon S3. You can enter a prefix to

append it to this default prefix. For example, if you enter the prefix `vehicles`, the prefix will be `vehicles/processed-data/year=YY/month=MM/date=DD/hour=HH/`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[a-zA-Z0-9-_:./!*'()]+`

Required: No

storageCompressionFormat

By default, stored data is compressed as a .gzip file. Compressed files have a reduced file size, which can optimize the cost of data storage.

Type: String

Valid Values: NONE | GZIP

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](#)

Sensor

An input component that reports the environmental condition of a vehicle.

Note

You can collect data about fluid levels, temperatures, vibrations, or battery voltage from sensors.

Contents

dataType

The specified data type of the sensor.

Type: String

Valid Values: INT8 | UINT8 | INT16 | UINT16 | INT32 | UINT32 | INT64 |
| UINT64 | BOOLEAN | FLOAT | DOUBLE | STRING | UNIX_TIMESTAMP |
INT8_ARRAY | UINT8_ARRAY | INT16_ARRAY | UINT16_ARRAY | INT32_ARRAY |
UINT32_ARRAY | INT64_ARRAY | UINT64_ARRAY | BOOLEAN_ARRAY | FLOAT_ARRAY
| DOUBLE_ARRAY | STRING_ARRAY | UNIX_TIMESTAMP_ARRAY | UNKNOWN | STRUCT
| STRUCT_ARRAY

Required: Yes

fullyQualifiedName

The fully qualified name of the sensor. For example, the fully qualified name of a sensor might be `Vehicle.Body.Engine.Battery`.

Type: String

Required: Yes

allowedValues

A list of possible values a sensor can take.

Type: Array of strings

Required: No

comment

A comment in addition to the description.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

deprecationMessage

The deprecation message for the node or the branch that was moved or deleted.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

description

A brief description of a sensor.

Type: String

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

Pattern: `[^\u0000-\u001F\u007F]+`

Required: No

max

The specified possible maximum value of the sensor.

Type: Double

Required: No

min

The specified possible minimum value of the sensor.

Type: Double

Required: No

structFullyQualifiedName

The fully qualified name of the struct node for a sensor if the data type of the actuator is `Struct` or `StructArray`. For example, the struct fully qualified name of a sensor might be `Vehicle.ADAS.CameraStruct`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

unit

The scientific unit of measurement for data collected by the sensor.

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](#)

SignalCatalogSummary

Information about a collection of standardized signals, which can be attributes, branches, sensors, or actuators.

Contents

arn

The Amazon Resource Name (ARN) of the signal catalog.

Type: String

Required: No

creationTime

The time the signal catalog was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: No

lastModificationTime

The time the signal catalog was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: No

name

The name of the signal catalog.

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](#)

SignalDecoder

Information about a signal decoder.

Contents

fullyQualifiedName

The fully qualified name of a signal decoder as defined in a vehicle model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Required: Yes

interfaceId

The ID of a network interface that specifies what network protocol a vehicle follows.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: Yes

type

The network protocol for the vehicle. For example, `CAN_SIGNAL` specifies a protocol that defines how data is communicated between electronic control units (ECUs). `OBD_SIGNAL` specifies a protocol that defines how self-diagnostic data is communicated between ECUs.

Type: String

Valid Values: `CAN_SIGNAL` | `OBD_SIGNAL` | `MESSAGE_SIGNAL`

Required: Yes

canSignal

Information about signal decoder using the Controller Area Network (CAN) protocol.

Type: [CanSignal](#) object

Required: No

messageSignal

The decoding information for a specific message which supports higher order data types.

Type: [MessageSignal](#) object

Required: No

obdSignal

Information about signal decoder using the On-board diagnostic (OBD) II protocol.

Type: [ObdSignal](#) 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](#)

SignalInformation

Information about a signal.

Contents

name

The name of the signal.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `[\w|*|-]+(\. [\w|*|-]+)*`

Required: Yes

maxSampleCount

The maximum number of samples to collect.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 4294967295.

Required: No

minimumSamplingIntervalMs

The minimum duration of time (in milliseconds) between two triggering events to collect data.

 **Note**

If a signal changes often, you might want to collect data at a slower rate.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 4294967295.

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](#)

StructuredMessage

The structured message for the message signal. It can be defined with either a `primitiveMessageDefinition`, `structuredMessageListDefinition`, or `structuredMessageDefinition` recursively.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

primitiveMessageDefinition

Represents a primitive type node of the complex data structure.

Type: [PrimitiveMessageDefinition](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

structuredMessageDefinition

Represents a struct type node of the complex data structure.

Type: Array of [StructuredMessageFieldNameAndDataTypePair](#) objects

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

Required: No

structuredMessageListDefinition

Represents a list type node of the complex data structure.

Type: [StructuredMessageListDefinition](#) 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](#)

StructuredMessageFieldNameAndDataTypePair

Represents a StructureMessageName to DataType map element.

Contents

dataType

The data type.

Type: [StructuredMessage](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

fieldName

The field name of the structured message. It determines how a data value is referenced in the target language.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

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](#)

StructuredMessageListDefinition

Represents a list type node of the complex data structure.

Contents

listType

The type of list of the structured message list definition.

Type: String

Valid Values: FIXED_CAPACITY | DYNAMIC_UNBOUNDED_CAPACITY | DYNAMIC_BOUNDED_CAPACITY

Required: Yes

memberType

The member type of the structured message list definition.

Type: [StructuredMessage](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

name

The name of the structured message list definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Required: Yes

capacity

The capacity of the structured message list definition when the list type is FIXED_CAPACITY or DYNAMIC_BOUNDED_CAPACITY.

Type: Integer

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](#)

Tag

A set of key/value pairs that are used to manage the resource.

Contents

Key

The tag's key.

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](#)

TimeBasedCollectionScheme

Information about a collection scheme that uses a time period to decide how often to collect data.

Contents

periodMs

The time period (in milliseconds) to decide how often to collect data. For example, if the time period is 60000, the Edge Agent software collects data once every minute.

Type: Long

Valid Range: Minimum value of 10000. Maximum value of 60000.

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](#)

TimestreamConfig

The Amazon Timestream table where the AWS IoT FleetWise campaign sends data. Timestream stores and organizes data to optimize query processing time and to reduce storage costs. For more information, see [Data modeling](#) in the *Amazon Timestream Developer Guide*.

Contents

executionRoleArn

The Amazon Resource Name (ARN) of the task execution role that grants AWS IoT FleetWise permission to deliver data to the Amazon Timestream table.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):iam::(\d{12})?:(role((\u002F)|(\u002F[\u0021-\u007F]+\u002F))[\w+=,.\e-]+)`

Required: Yes

timestreamTableArn

The Amazon Resource Name (ARN) of the Amazon Timestream table.

Type: String

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

Pattern: `arn:(aws[a-zA-Z0-9-]*):timestream:[a-zA-Z0-9-]+:[0-9]{12}:database/[a-zA-Z0-9_.-]+/table/[a-zA-Z0-9_.-]+`

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](#)

TimestreamRegistrationResponse

Information about the registered Amazon Timestream resources or errors, if any.

Contents

registrationStatus

The status of registering your Amazon Timestream resources. The status can be one of REGISTRATION_SUCCESS, REGISTRATION_PENDING, REGISTRATION_FAILURE.

Type: String

Valid Values: REGISTRATION_PENDING | REGISTRATION_SUCCESS | REGISTRATION_FAILURE

Required: Yes

timestreamDatabaseName

The name of the Timestream database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

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

Required: Yes

timestreamTableName

The name of the Timestream database table.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

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

Required: Yes

errorMessage

A message associated with a registration error.

Type: String

Required: No

timestreamDatabaseArn

The Amazon Resource Name (ARN) of the Timestream database.

Type: String

Required: No

timestreamTableArn

The ARN of the Timestream database table.

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](#)

TimestreamResources

The registered Amazon Timestream resources that AWS IoT FleetWise edge agent software can transfer your vehicle data to.

Contents

timestreamDatabaseName

The name of the registered Amazon Timestream database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

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

Required: Yes

timestreamTableName

The name of the registered Amazon Timestream database table.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

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

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](#)

UpdateVehicleError

An HTTP error resulting from updating the description for a vehicle.

Contents

code

The relevant HTTP error code (400+).

Type: Integer

Required: No

message

A message associated with the error.

Type: String

Required: No

vehicleName

The ID of the vehicle with the error.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\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](#)

UpdateVehicleRequestItem

Information about the vehicle to update.

Contents

vehicleName

The unique ID of the vehicle to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\d\-_:\+]`

Required: Yes

attributes

Static information about a vehicle in a key-value pair. For example:

```
"engineType": "1.3 L R2"
```

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

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

Required: No

attributeUpdateMode

The method the specified attributes will update the existing attributes on the vehicle.

Use `Overwrite` to replace the vehicle attributes with the specified attributes. Or use `Merge` to combine all attributes.

This is required if attributes are present in the input.

Type: String

Valid Values: `Overwrite` | `Merge`

Required: No

decoderManifestArn

The ARN of the signal decoder manifest associated with the vehicle to update.

Type: String

Required: No

modelManifestArn

The ARN of the vehicle model (model manifest) associated with the vehicle to update.

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](#)

UpdateVehicleResponseItem

Information about the updated vehicle.

Contents

arn

The Amazon Resource Name (ARN) of the updated vehicle.

Type: String

Required: No

vehicleName

The unique ID of the updated vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\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](#)

ValidationExceptionField

A validation error due to mismatch between the expected data type, length, or pattern of the parameter and the input.

Contents

message

A message about the validation error.

Type: String

Required: Yes

name

The name of the parameter field with the validation error.

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](#)

VehicleMiddleware

The vehicle middleware defined as a type of network interface. Examples of vehicle middleware include ROS2 and SOME/IP.

Contents

name

The name of the vehicle middleware.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

protocolName

The protocol name of the vehicle middleware.

Type: String

Valid Values: ROS_2

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](#)

VehicleStatus

Information about the state of a vehicle and how it relates to the status of a campaign.

Contents

campaignName

The name of a campaign.

Type: String

Required: No

status

The state of a vehicle, which can be one of the following:

- **CREATED** - AWS IoT FleetWise successfully created the vehicle.
- **READY** - The vehicle is ready to receive a campaign deployment.
- **HEALTHY** - A campaign deployment was delivered to the vehicle.
- **SUSPENDED** - A campaign associated with the vehicle was suspended and data collection was paused.
- **DELETING** - AWS IoT FleetWise is removing a campaign from the vehicle.

Type: String

Valid Values: **CREATED** | **READY** | **HEALTHY** | **SUSPENDED** | **DELETING**

Required: No

vehicleName

The unique ID of the vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z\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](#)

VehicleSummary

Information about a vehicle.

To return this information about vehicles in your account, you can use the [ListVehicles](#) API operation.

Contents

arn

The Amazon Resource Name (ARN) of the vehicle.

Type: String

Required: Yes

creationTime

The time the vehicle was created in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

decoderManifestArn

The ARN of a decoder manifest associated with the vehicle.

Type: String

Required: Yes

lastModificationTime

The time the vehicle was last updated in seconds since epoch (January 1, 1970 at midnight UTC time).

Type: Timestamp

Required: Yes

modelManifestArn

The ARN of a vehicle model (model manifest) associated with the vehicle.

Type: String

Required: Yes

vehicleName

The unique ID of the vehicle.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z\d\-_:\]+

Required: Yes

attributes

Static information about a vehicle in a key-value pair. For example:

```
"engineType" : "1.3 L R2"
```

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 150.

Key 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](#)

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: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400