
AWS IoT 1-Click Projects Service

Projects API Reference

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AWS IoT 1-Click Projects Service: Projects API Reference

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Welcome

The AWS IoT 1-Click Projects API Reference

This document was last published on September 18, 2019.

Actions

The following actions are supported:

- [AssociateDeviceWithPlacement](#) (p. 3)
- [CreatePlacement](#) (p. 5)
- [CreateProject](#) (p. 7)
- [DeletePlacement](#) (p. 10)
- [DeleteProject](#) (p. 12)
- [DescribePlacement](#) (p. 14)
- [DescribeProject](#) (p. 16)
- [DisassociateDeviceFromPlacement](#) (p. 18)
- [GetDevicesInPlacement](#) (p. 20)
- [ListPlacements](#) (p. 22)
- [ListProjects](#) (p. 24)
- [ListTagsForResource](#) (p. 26)
- [TagResource](#) (p. 28)
- [UntagResource](#) (p. 30)
- [UpdatePlacement](#) (p. 32)
- [UpdateProject](#) (p. 34)

AssociateDeviceWithPlacement

Associates a physical device with a placement.

Request Syntax

```
PUT /projects/projectName/placements/placementName/devices/deviceTemplateName HTTP/1.1
Content-type: application/json

{
  "deviceId": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

deviceTemplateName (p. 3)

The device template name to associate with the device ID.

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

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

placementName (p. 3)

The name of the placement in which to associate the device.

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

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

projectName (p. 3)

The name of the project containing the placement in which to associate the device.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request accepts the following data in JSON format.

deviceId (p. 3)

The ID of the physical device to be associated with the given placement in the project. Note that a mandatory 4 character prefix is required for all `deviceId` values.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceConflictException

HTTP Status Code: 409

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

CreatePlacement

Creates an empty placement.

Request Syntax

```
POST /projects/projectName/placements HTTP/1.1
Content-type: application/json

{
  "attributes": {
    "string": "string"
  },
  "placementName": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

projectName (p. 5)

The name of the project in which to create the placement.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request accepts the following data in JSON format.

attributes (p. 5)

Optional user-defined key/value pairs providing contextual data (such as location or function) for the placement.

Type: String to string map

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

Value Length Constraints: Maximum length of 800.

Required: No

placementName (p. 5)

The name of the placement to be created.

Type: String

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

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceConflictException

HTTP Status Code: 409

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

CreateProject

Creates an empty project with a placement template. A project contains zero or more placements that adhere to the placement template defined in the project.

Request Syntax

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

{
  "description": "string",
  "placementTemplate": {
    "defaultAttributes": {
      "string" : "string"
    },
    "deviceTemplates": {
      "string" : {
        "callbackOverrides": {
          "string" : "string"
        },
        "deviceType": "string"
      }
    }
  },
  "projectName": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description (p. 7)

An optional description for the project.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

placementTemplate (p. 7)

The schema defining the placement to be created. A placement template defines placement default attributes and device templates. You cannot add or remove device templates after the project has been created. However, you can update `callbackOverrides` for the device templates using the `UpdateProject` API.

Type: [PlacementTemplate \(p. 41\)](#) object

Required: No

projectName (p. 7)

The name of the project to create.

Type: String

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

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

tags (p. 7)

Optional tags (metadata key/value pairs) to be associated with the project. For example, `{ "key1": "value1", "key2": "value2" }`. For more information, see [AWS Tagging Strategies](#).

Type: String to string map

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

Key Pattern: `^(?!aws:)[a-zA-Z+-. _:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceConflictException

HTTP Status Code: 409

See Also

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

- [AWS Command Line Interface](#)

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

DeletePlacement

Deletes a placement. To delete a placement, it must not have any devices associated with it.

Note

When you delete a placement, all associated data becomes irretrievable.

Request Syntax

```
DELETE /projects/projectName/placements/placementName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

placementName (p. 10)

The name of the empty placement to delete.

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

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

projectName (p. 10)

The project containing the empty placement to delete.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

TooManyRequestsException

HTTP Status Code: 429

See Also

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

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

DeleteProject

Deletes a project. To delete a project, it must not have any placements associated with it.

Note

When you delete a project, all associated data becomes irretrievable.

Request Syntax

```
DELETE /projects/projectName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

projectName (p. 12)

The name of the empty project to delete.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

TooManyRequestsException

HTTP Status Code: 429

See Also

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

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

DescribePlacement

Describes a placement in a project.

Request Syntax

```
GET /projects/projectName/placements/placementName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

placementName (p. 14)

The name of the placement within a project.

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

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

projectName (p. 14)

The project containing the placement to be described.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "placement": {
    "attributes": {
      "string" : "string"
    },
    "createdDate": number,
    "placementName": "string",
    "projectName": "string",
    "updatedDate": 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.

placement (p. 14)

An object describing the placement.

Type: [PlacementDescription \(p. 38\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

DescribeProject

Returns an object describing a project.

Request Syntax

```
GET /projects/projectName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

projectName (p. 16)

The name of the project to be described.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "project": {
    "arn": "string",
    "createdDate": number,
    "description": "string",
    "placementTemplate": {
      "defaultAttributes": {
        "string": "string"
      },
      "deviceTemplates": {
        "string": {
          "callbackOverrides": {
            "string": "string"
          },
          "deviceType": "string"
        }
      }
    },
    "projectName": "string",
    "tags": {
      "string": "string"
    },
    "updatedAt": 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.

project (p. 16)

An object describing the project.

Type: [ProjectDescription](#) (p. 42) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 48).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

DisassociateDeviceFromPlacement

Removes a physical device from a placement.

Request Syntax

```
DELETE /projects/projectName/placements/placementName/devices/deviceTemplateName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

deviceTemplateName (p. 18)

The device ID that should be removed from the placement.

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

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

placementName (p. 18)

The name of the placement that the device should be removed from.

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

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

projectName (p. 18)

The name of the project that contains the placement.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

TooManyRequestsException

HTTP Status Code: 429

See Also

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

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

GetDevicesInPlacement

Returns an object enumerating the devices in a placement.

Request Syntax

```
GET /projects/projectName/placements/placementName/devices HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

placementName (p. 20)

The name of the placement to get the devices from.

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

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

projectName (p. 20)

The name of the project containing the placement.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "devices": {
    "string" : "string"
  }
}
```

Response Elements

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

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

devices (p. 20)

An object containing the devices (zero or more) within the placement.

Type: String to string map

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

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

Value Length Constraints: Minimum length of 1. Maximum length of 32.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

ListPlacements

Lists the placement(s) of a project.

Request Syntax

```
GET /projects/projectName/placements?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 22)

The maximum number of results to return per request. If not set, a default value of 100 is used.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 22)

The token to retrieve the next set of results.

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

projectName (p. 22)

The project containing the placements to be listed.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "placements": [
    {
      "createdDate": number,
      "placementName": "string",
      "projectName": "string",
      "updatedDate": 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.

nextToken (p. 22)

The token used to retrieve the next set of results - will be effectively empty if there are no further results.

Type: String

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

placements (p. 22)

An object listing the requested placements.

Type: Array of [PlacementSummary \(p. 40\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

ListProjects

Lists the AWS IoT 1-Click project(s) associated with your AWS account and region.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

maxResults (p. 24)

The maximum number of results to return per request. If not set, a default value of 100 is used.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken (p. 24)

The token to retrieve the next set of results.

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "nextToken": "string",
  "projects": [
    {
      "arn": "string",
      "createdDate": number,
      "projectName": "string",
      "tags": {
        "string" : "string"
      },
      "updatedAt": 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.

[nextToken \(p. 24\)](#)

The token used to retrieve the next set of results - will be effectively empty if there are no further results.

Type: String

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

[projects \(p. 24\)](#)

An object containing the list of projects.

Type: Array of [ProjectSummary \(p. 44\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

Lists the tags (metadata key/value pairs) which you have assigned to the resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

[resourceArn \(p. 26\)](#)

The ARN of the resource whose tags you want to list.

Pattern: `^arn:aws:iot1click:[A-Za-z0-9_/.-]{0,63}:\d+:projects/[0-9A-Za-z_-]{1,128}$`

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

[tags \(p. 26\)](#)

The tags (metadata key/value pairs) which you have assigned to the resource.

Type: String to string map

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

Key Pattern: `^(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

TagResource

Creates or modifies tags for a resource. Tags are key/value pairs (metadata) that can be used to manage a resource. For more information, see [AWS Tagging Strategies](#).

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 28)

The ARN of the resource for which tag(s) should be added or modified.

Pattern: `^arn:aws:iot1click:[A-Za-z0-9_/.-]{0,63}:\d+:projects/[0-9A-Za-z_-]{1,128}$`

Request Body

The request accepts the following data in JSON format.

tags (p. 28)

The new or modifying tag(s) for the resource. See [AWS IoT 1-Click Service Limits](#) for the maximum number of tags allowed per resource.

Type: String to string map

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

Key Pattern: `^(?!aws:)[a-zA-Z+ -= ._: /]+$`

Value Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

UntagResource

Removes one or more tags (metadata key/value pairs) from a resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

resourceArn (p. 30)

The ARN of the resource whose tag you want to remove.

Pattern: `^arn:aws:iot1click:[A-Za-z0-9_/.-]{0,63}:\d+:projects/[0-9A-Za-z_-]{1,128}$`

tagKeys (p. 30)

The keys of those tags which you want to remove.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^(?!aws:)[a-zA-Z+-._: /]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

See Also

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

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

UpdatePlacement

Updates a placement with the given attributes. To clear an attribute, pass an empty value (i.e., "").

Request Syntax

```
PUT /projects/projectName/placements/placementName HTTP/1.1
Content-type: application/json

{
  "attributes": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request requires the following URI parameters.

placementName (p. 32)

The name of the placement to update.

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

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

projectName (p. 32)

The name of the project containing the placement to be updated.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request accepts the following data in JSON format.

attributes (p. 32)

The user-defined object of attributes used to update the placement. The maximum number of key/value pairs is 50.

Type: String to string map

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

Value Length Constraints: Maximum length of 800.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

TooManyRequestsException

HTTP Status Code: 429

See Also

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

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

UpdateProject

Updates a project associated with your AWS account and region. With the exception of device template names, you can pass just the values that need to be updated because the update request will change only the values that are provided. To clear a value, pass the empty string (i.e., "").

Request Syntax

```
PUT /projects/projectName HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "placementTemplate": {
    "defaultAttributes": {
      "string" : "string"
    },
    "deviceTemplates": {
      "string" : {
        "callbackOverrides": {
          "string" : "string"
        },
        "deviceType": "string"
      }
    }
  }
}
```

URI Request Parameters

The request requires the following URI parameters.

projectName (p. 34)

The name of the project to be updated.

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

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request accepts the following data in JSON format.

description (p. 34)

An optional user-defined description for the project.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

placementTemplate (p. 34)

An object defining the project update. Once a project has been created, you cannot add device template names to the project. However, for a given `placementTemplate`, you can update the associated `callbackOverrides` for the device definition using this API.

Type: [PlacementTemplate \(p. 41\)](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 48\)](#).

InternalFailureException

HTTP Status Code: 500

InvalidRequestException

HTTP Status Code: 400

ResourceNotFoundException

HTTP Status Code: 404

TooManyRequestsException

HTTP Status Code: 429

See Also

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

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

Data Types

The AWS IoT 1-Click Projects Service 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:

- [DeviceTemplate](#) (p. 37)
- [PlacementDescription](#) (p. 38)
- [PlacementSummary](#) (p. 40)
- [PlacementTemplate](#) (p. 41)
- [ProjectDescription](#) (p. 42)
- [ProjectSummary](#) (p. 44)

DeviceTemplate

An object representing a device for a placement template (see [PlacementTemplate](#) (p. 41)).

Contents

callbackOverrides

An optional Lambda function to invoke instead of the default Lambda function provided by the placement template.

Type: String to string map

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

Value Length Constraints: Maximum length of 200.

Required: No

deviceType

The device type, which currently must be "button".

Type: String

Length Constraints: Maximum length of 128.

Required: No

See Also

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

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

PlacementDescription

An object describing a project's placement.

Contents

attributes

The user-defined attributes associated with the placement.

Type: String to string map

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

Value Length Constraints: Maximum length of 800.

Required: Yes

createdDate

The date when the placement was initially created, in UNIX epoch time format.

Type: Timestamp

Required: Yes

placementName

The name of the placement.

Type: String

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

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

Required: Yes

projectName

The name of the project containing the placement.

Type: String

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

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

updatedAt

The date when the placement was last updated, in UNIX epoch time format. If the placement was not updated, then `createdDate` and `updatedAt` are the same.

Type: Timestamp

Required: Yes

See Also

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

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

PlacementSummary

An object providing summary information for a particular placement.

Contents

createdDate

The date when the placement was originally created, in UNIX epoch time format.

Type: Timestamp

Required: Yes

placementName

The name of the placement being summarized.

Type: String

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

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

Required: Yes

projectName

The name of the project containing the placement.

Type: String

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

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

updatedAt

The date when the placement was last updated, in UNIX epoch time format. If the placement was not updated, then `createdDate` and `updatedAt` are the same.

Type: Timestamp

Required: Yes

See Also

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

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

PlacementTemplate

An object defining the template for a placement.

Contents

defaultAttributes

The default attributes (key/value pairs) to be applied to all placements using this template.

Type: String to string map

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

Value Length Constraints: Maximum length of 800.

Required: No

deviceTemplates

An object specifying the [DeviceTemplate \(p. 37\)](#) for all placements using this ([PlacementTemplate \(p. 41\)](#)) template.

Type: String to [DeviceTemplate \(p. 37\)](#) object map

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

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

ProjectDescription

An object providing detailed information for a particular project associated with an AWS account and region.

Contents

arn

The ARN of the project.

Type: String

Pattern: `^arn:aws:iot1click:[A-Za-z0-9_/.-]{0,63}:\d+:projects/[0-9A-Za-z_-]{1,128}$`

Required: No

createdDate

The date when the project was originally created, in UNIX epoch time format.

Type: Timestamp

Required: Yes

description

The description of the project.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

placementTemplate

An object describing the project's placement specifications.

Type: [PlacementTemplate \(p. 41\)](#) object

Required: No

projectName

The name of the project for which to obtain information from.

Type: String

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

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

tags

The tags (metadata key/value pairs) associated with the project.

Type: String to string map

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

Key Pattern: `^(?!aws:)[a-zA-Z+--=._:/]+`

Value Length Constraints: Maximum length of 256.

Required: No

updatedAt

The date when the project was last updated, in UNIX epoch time format. If the project was not updated, then `createdAt` and `updatedAt` are the same.

Type: Timestamp

Required: Yes

See Also

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

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

ProjectSummary

An object providing summary information for a particular project for an associated AWS account and region.

Contents

arn

The ARN of the project.

Type: String

Pattern: `^arn:aws:iot1click:[A-Za-z0-9_/.-]{0,63}:\d+:projects/[0-9A-Za-z_-]{1,128}$`

Required: No

createdDate

The date when the project was originally created, in UNIX epoch time format.

Type: Timestamp

Required: Yes

projectName

The name of the project being summarized.

Type: String

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

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

tags

The tags (metadata key/value pairs) associated with the project.

Type: String to string map

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

Key Pattern: `^(?!aws:)[a-zA-Z+-. _/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

updatedAt

The date when the project was last updated, in UNIX epoch time format. If the project was not updated, then `createdDate` and `updatedAt` are the same.

Type: Timestamp

Required: Yes

See Also

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

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

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

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