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Short message Service

SDK Reference

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Document conventions

Style	Description	Example
Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	**Danger:** Resetting will result in the loss of user configuration data.
Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	**Warning:** Restarting will cause business interruption. About 10 minutes are required to restart an instance.
Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	**Notice:** If the weight is set to 0, the server no longer receives new requests.
Note	A note indicates supplemental instructions, best practices, tips, and other content.	**Note:** You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click **Settings**> **Network**> **Set network type**.
Bold	Bold formatting is used for buttons , menus, page names, and other UI elements.	Click **OK**.
`Courier font`	Courier font is used for commands	Run the `cd /d C:/window` command to enter the Windows system folder.
Italic	Italic formatting is used for parameters and variables.	`bae log list --instanceid` *Instance_ID*
[] or [a|b]	This format is used for an optional value, where only one item can be selected.	`ipconfig [-all|-t]`
{} or {a|b}	This format is used for a required value, where only one item can be selected.	`switch {active|stand}`

Table of Contents

1.SDK overview

Alibaba Cloud Short Message Service (SMS) provides SDKs for Java, .NET, PHP, Python, Node.js, and Go. Before you use the SDKs to call SMS API operations, you can view the corresponding demos for the SDKs.

SDK	Installation method	DEMO
Java SDK	Install Alibaba Cloud SDK for Java	Java SDK DEMO
.NET SDK	Install Alibaba Cloud SDK for .NET	.NET SDK DEMO
PHP SDK	Install Alibaba Cloud SDK for PHP	PHP SDK DEMO
Python SDK	Install Alibaba Cloud SDK for Python	Python SDK DEMO
Node.js SDK	Install Alibaba Cloud SDK for Node.js	Node.js SDK DEMO
Go SDK	Install Alibaba Cloud SDK for Go	Go SDK DEMO

2.Install SDKs

2.1. Install Alibaba Cloud SDK for Java

This topic describes how to add Maven dependencies and download SDK tools to install Alibaba Cloud SDK for Java.

Prerequisites

Before you install and use Alibaba Cloud SDK for Java, make sure that the following requirements are met:

- The Java environment is installed. Java Development Kit (JDK) version 1.6 or later is used.
- An Alibaba Cloud account is created and an AccessKey pair is created. For more information, see Obtain an AccessKey pair.

Installation methods

You can use the following two methods to install Alibaba Cloud SDK for Java:

- Add Maven dependencies. This method applies to the Java projects that are managed by using Maven.
- Import JAR files to the integrated development environment (IDE). This method applies to the projects that are deployed in Eclipse or IntelliJ IDEA.

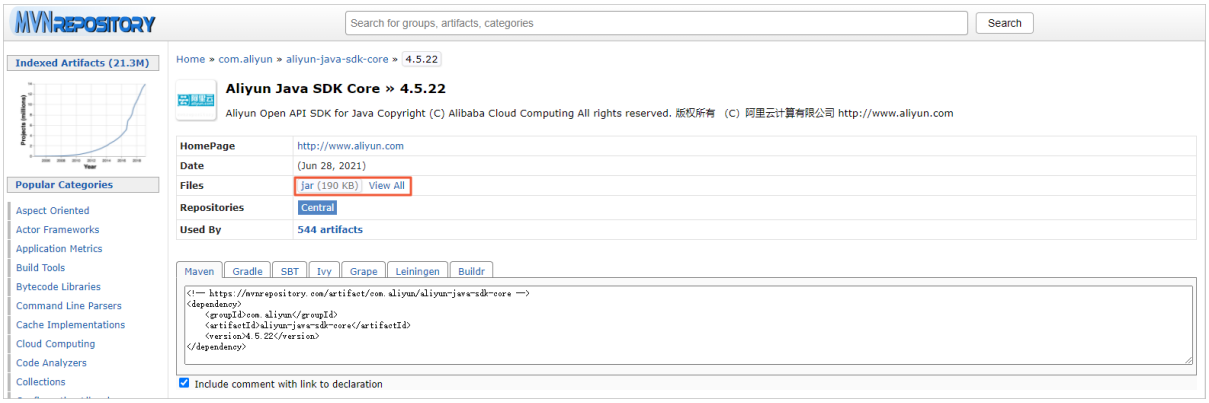
Add Maven dependencies

If you use Maven to manage Java projects, you can add Maven dependencies to the *pom.xml* file to install Alibaba Cloud SDK for Java. In the Maven repository, you can view the Maven dependencies of Alibaba Cloud services.

Add the following Maven dependency to install the core library of Alibaba Cloud SDK for Java.

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.5.22</version>
</dependency>
```

> **Note** The version that is used in the preceding dependency is a sample version. For information about the latest version of the core library, visit the Maven repository.



Core library of Alibaba Cloud SDK for Java on GitHub

Core library of Alibaba Cloud SDK for Java

2.2. Install the Alibaba Cloud SDK for Node.js

This topic describes how to add dependencies to install the Alibaba Cloud SDK for Node.js.

> **Note** You must install the core library of the Alibaba Cloud SDK for Node.js regardless of the method you use to install the Alibaba Cloud SDK for Node.js.

Prerequisites

Before you install and use the Alibaba Cloud SDK for Node.js, make sure that the following requirements are met:

- The Node.js environment is installed. The Node.js version is 8.0 or later.
- An Alibaba Cloud account is created and an AccessKey pair is created. For more information, see Create an AccessKey pair.

Procedure

To install the Alibaba Cloud SDK for Node.js by using a dependency manager, perform the following operations:

Run the following command to install the core library of the Alibaba Cloud SDK for Node.js:

```
npm install @alicloud/pop-core -S
```

You can also use package managers such as cnpm and Yarn to install the @alicloud/pop-core library.

After the Alibaba Cloud SDK for Node.js is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects. For more information, see GitHub repositories.

Core library of the Alibaba Cloud SDK for Node.js on GitHub

Core library of the Alibaba Cloud SDK for Node.js

2.3. Install the Alibaba Cloud SDK for Go

This topic describes how to add dependencies to install the Alibaba Cloud SDK for Go.

> **Note** You must install the core library of the Alibaba Cloud SDK for Go regardless of the method that you use to install the Alibaba Cloud SDK for Go.

Prerequisites

Before you install and use the Alibaba Cloud SDK for Go, an Alibaba Cloud account is created and an AccessKey pair is created. For more information, see Create an AccessKey pair.

(Recommended) Use Glide

To install the Alibaba Cloud SDK for Go, run the following command:

```
glide get github.com/aliyun/alibaba-cloud-sdk-go
```

Use govendor

To install the Alibaba Cloud SDK for Go, run the following command:

```
go get -u github.com/aliyun/alibaba-cloud-sdk-go/sdk
```

After the Alibaba Cloud SDK for Go is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects.

Core library of the Alibaba Cloud SDK for Go on GitHub

Core library of the Alibaba Cloud SDK for Go

2.4. Install the Alibaba Cloud SDK for PHP

This topic describes how to add dependencies to install the Alibaba Cloud SDK for PHP.

Prerequisites

Before you install and use the Alibaba Cloud SDK for PHP, the Alibaba Cloud account is created and the AccessKey pair is created. For more information, see Create an AccessKey pair.

> **Note** We recommend that you use the Transport Layer Security (TLS) protocol for compilation at the backend and use the PHP cURL extension. We recommend that you use cURL 7.16.2 and later.

Procedure

To install dependencies by using the Composer dependency manager, perform the following operation:

If Composer has been installed globally in your system, run the following command in your project directory to add the Alibaba Cloud Client for PHP library as a dependency.

```
composer require alibabacloud/client
```

For more information about Composer and other installation methods, see Installation guide.

After the Alibaba Cloud SDK for PHP is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects. For more information, see Installation and usage guide.

Core library of the Alibaba Cloud SDK for PHP on GitHub

Core library of the Alibaba Cloud SDK for PHP

2.5. Install the Alibaba Cloud SDK for Python

This topic describes how to add dependencies and download SDK tools to install the Alibaba Cloud SDK for Python.

> **Note** You must install the core library of the Alibaba Cloud SDK for Python regardless of the method that you use to install the Alibaba Cloud SDK for Python.

Prerequisites

Before you install and use the Alibaba Cloud SDK for Python, an Alibaba Cloud account is created and an AccessKey pair is created. For more information, see Create an AccessKey pair.

Installation methods

You can use the following two methods to install the Alibaba Cloud SDK for Python:

- (Recommended) Use dependency managers.
- Download and install the Alibaba Cloud SDK for Python.

(Recommended) Use dependency managers

To install the core library of the Alibaba Cloud Python SDK, run the following command:

```
pip install aliyun-python-sdk-core
```

Download and install the Alibaba Cloud SDK for Python

You can run the git clone command or use other methods to download the aliyun-net-sdk-core library and implement a solution based on your business needs.

To download the aliyun-python-sdk-core library from GitHub, visit aliyun-python-sdk-core.

After the Alibaba Cloud SDK for Python is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects.

Core library of the Alibaba Cloud SDK for Python on GitHub

Core library of the Alibaba Cloud SDK for Python

2.6. Install the Alibaba Cloud SDK for .NET

This topic describes how to install the Alibaba Cloud SDK for .NET. You can run the git clone command or use other methods to download the core library of the Alibaba Cloud SDK for .NET.

> **Note** You must install the core library of the Alibaba Cloud SDK for .NET regardless of the method that you use to install the Alibaba Cloud SDK for .NET.

Prerequisites

Before you install and use the Alibaba Cloud SDK for Python, an Alibaba Cloud account is created and an AccessKey pair is created. For more information, see Create an AccessKey pair.

Installation methods

You can use the following two methods to install the Alibaba Cloud SDK for .NET:

- (Recommended) Use dependency managers.
- Download and install the Alibaba Cloud SDK for .NET.

(Recommended) Use dependency managers

You can use the NuGet package manager to install the Alibaba Cloud SDK for .NET. In Solution Explorer, right-click your project and select Manage NuGet Packages. In the NuGet panel that appears, click the Browse tab and enter aliyun-net-sdk-core in the search box. Select aliyun-net-sdk-core and click Install.

An alternative approach is to use the .NET command-line interface (CLI) to install the core library of the Alibaba Cloud SDK for .NET.

```
dotnet add package aliyun-net-sdk-core
```

After the Alibaba Cloud SDK for .NET is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects.

Download and install the Alibaba Cloud SDK for .NET

You can run the `git clone` command or use other methods to download the aliyun-net-sdk-core library, and implement a solution based on your business needs.

To download the aliyun-net-sdk-core library from GitHub, visit aliyun-net-sdk-core.

After the Alibaba Cloud SDK for .NET is installed, you can use OpenAPI Explorer to generate the sample code of API operations for the SDK, and apply the sample code in your projects.

Core library of the Alibaba Cloud SDK for .NET on GitHub

Core library of the Alibaba Cloud SDK for .NET

3.Demos

3.1. Java Demo

This topic provides a demo to describe how to use Alibaba Cloud SDK for Java to call the SendMessageToGlobe operation. This API operation allows you to send text messages to the regions outside the Chinese mainland.

Usage notes

Before you use the SDK sample code, take note of the following information:

- When you construct a new default profile, the value of the regionId parameter must be ap-southeast-1 and cannot be changed. Note that regionId is the first parameter in the default profile.
- You must set the domain parameter to dysmsapi.ap-southeast-1.aliyuncs.com.
- You must set the version parameter to 2018-05-01.

> Note
>
> - The version that is used in the demo Maven dependency is a sample version. For information about the latest version of the core library, visit the Maven repository.
> - For information about more examples, visit OpenAPI Explorer.

Sample code

```
package com.alicom.dysms.api;
import com.aliyuncs.CommonRequest;
import com.aliyuncs.CommonResponse;
import com.aliyuncs.DefaultAcsClient;
import com.aliyuncs.IAcsClient;
import com.aliyuncs.exceptions.ClientException;
import com.aliyuncs.exceptions.ServerException;
import com.aliyuncs.http.MethodType;
import com.aliyuncs.profile.DefaultProfile;
/*
pom.xml
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>4.5.17</version>
</dependency>
*/
public class CommonRpc {
    public static void main(String[] args) {
        // Initialize the AcsClient object. You can query <accessKeyId> and <accessSecret>
in the Short Message Service (SMS) console.
        DefaultProfile profile = DefaultProfile.getProfile("ap-southeast-1", "<accessKeyId>
", "<accessSecret>");
        IAcsClient client = new DefaultAcsClient(profile);
        CommonRequest request = new CommonRequest();
        request.setSysMethod(MethodType.POST);
        // The domain name, which cannot be modified.
        request.setSysDomain("dysmsapi.ap-southeast-1.aliyuncs.com");
        // The API version number, which cannot be modified.
        request.setSysVersion("2018-05-01");
        // The API operation.
        request.setSysAction("SendMessageToGlobe");
        // The mobile phone number that is used to receive the text message. You must add t
he country code to the beginning of the mobile phone number.
        request.putQueryParameter("To", "62123****8901");
        // Optional. Specify the ID of the sender.
        //request.putQueryParameter("From", "1234567890");
        // Required. Specify the text message content.
        request.putQueryParameter("Message", "have a test.");
        try {
            CommonResponse response = client.getCommonResponse(request);
            System.out.println(response.getData());
        } catch (ServerException e) {
            e.printStackTrace();
        } catch (ClientException e) {
            e.printStackTrace();
        }
    }
}
```

3.2. Node.js Demo

This topic provides a demo to describe how to use the Alibaba Cloud SDK for Node.js to call the SendMessageToGlobe operation. This API operation allows you to send text messages to the regions outside Mainland China.

Considerations

Before you use the SDK sample code, pay attention to the following considerations:

- You must use the default value of the RegionId parameter: ap-southeast-1.
- You must use the default value of the endpoint parameter: https://dysmsapi.ap-southeast-1.aliyuncs.com.
- You must use the default value of the apiVersion parameter: 2018-05-01.

Sample code

```
const Core = require('@alicloud/pop-core');
var client = new Core({
  accessKeyId: '<accessKeyId>',
  accessKeySecret: '<accessSecret>',
  endpoint: 'https://dysmsapi.ap-southeast-1.aliyuncs.com',
  apiVersion: '2018-05-01'
});
var params = {
  "RegionId": "ap-southeast-1",
  "To": "6212345678901",
  "From": "1234",
  "Message": "Have a test."
}
var requestOption = {
  method: 'POST'
};
client.request('SendMessageToGlobe', params, requestOption).then((result) => {
  console.log(result);
}, (ex) => {
  console.log(ex);
})
```

3.3. Go Demo

This topic provides a demo to describe how to use Alibaba Cloud SDK for Go to call the SendMessageToGlobe operation. This API operation allows you to send messages to the countries or regions outside the Chinese mainland.

Usage notes

- You must set the regionId parameter to ap-southeast-1.
- You must set the domain parameter to dysmsapi.ap-southeast-1.aliyuncs.com.
- You must set the version parameter to 2018-05-01.

Sample code

```
package main
import (
    "fmt"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
)
func main() {
    client, err := sdk.NewClientWithAccessKey("ap-southeast-1", "<accessKeyId>", "<accessSe
cret>")
    if err != nil {
        panic(err)
    }
    request := requests.NewCommonRequest()
    request.Method = "POST"
    request.Scheme = "https" // https | http
    request.Domain = "dysmsapi.ap-southeast-1.aliyuncs.com"
    request.Version = "2018-05-01"
    request.ApiName = "BatchSendMessageToGlobe"
  request.QueryParams["RegionId"] = "ap-southeast-1"
    response, err := client.ProcessCommonRequest(request)
    if err != nil {
        panic(err)
    }
    fmt.Print(response.GetHttpContentString())
}
```

3.4. Sample PHP code

This topic describes how to use the PHP SDK to call the SendMessageToGlobe operation to send SMS messages to regions outside mainland China.

Precautions

- You must set the regionId parameter to ap-southeast-1.
- You must set the product parameter to Dysmsapi.
- You must set the host parameter to dysmsapi.ap-southeast-1.aliyuncs.com.
- You must set the version parameter to 2018-05-01.

Sample code

```
<?php
use AlibabaCloud\Client\AlibabaCloud;
use AlibabaCloud\Client\Exception\ClientException;
use AlibabaCloud\Client\Exception\ServerException;
// Download:https://github.com/aliyun/openapi-sdk-php-client
// Usage:https://github.com/aliyun/openapi-sdk-php-client/blob/master/README-CN.md
AlibabaCloud::accessKeyClient('<accessKeyId>', '<accessSecret>')
                        ->regionId('ap-southeast-1')
                        ->asGlobalClient();
try {
    $result = AlibabaCloud::rpcRequest()
                            ->product('Dysmsapi')
                            ->host('dysmsapi.ap-southeast-1.aliyuncs.com')
                            ->version('2018-05-01')
                            ->action('SendMessageToGlobe')
                            ->method('POST')
                            ->options([
                                        'query' => [
                                            "To" => "62123****8901",
                                            // "From" => "1234567890",
                                            "Message" => "have a test.",
                                        ],
                                    ])
                            ->request();
    print_r($result->toArray());
} catch (ClientException $e) {
    echo $e->getErrorMessage() . PHP_EOL;
} catch (ServerException $e) {
    echo $e->getErrorMessage() . PHP_EOL;
}
```

3.5. Python Demo

This topic provides a demo to describe how to use the Alibaba Cloud SDK for Python to call the SendMessageToGlobe operation. This API operation allows you to send text messages to the regions outside Mainland China.

Considerations

- When you construct the AcsClient object, you must use the default value of the regionId parameter. The default value is ap-southeast-1. Note that regionId is the third parameter when you construct the AcsClient object.
- You must use the default domain name: dysmsapi.ap-southeast-1.aliyuncs.com.
- You must use the default API version number: 2018-05-01.

Sample code

```
#! /usr/bin/env python
#coding=utf-8
import os
from aliyunsdkcore.client import AcsClient
from aliyunsdkcore.request import CommonRequest
client = AcsClient('<accessKeyId>', '<accessSecret>', 'ap-southeast-1')
request = CommonRequest()
request.set_accept_format('json')
request.set_domain('dysmsapi.ap-southeast-1.aliyuncs.com')
request.set_method('POST')
request.set_version('2018-05-01')
request.set_action_name('SendMessageToGlobe')
request.add_query_param('To', '62813****7451')
request.add_query_param('From', '1234')
request.add_query_param('Message', 'Have a test.')
response = client.do_action(request)
# python2: print(response)
print(str(response, encoding = 'utf-8'))
```

3.6. .NET Demo

This topic provides a demo to describe how to use Alibaba Cloud SDK for .NET to call the SendMessageToGlobe operation. This API operation allows you to send text messages to the regions outside the Chinese mainland.

Usage notes

- When you define a new default profile, the value of the regionId parameter must be ap-southeast-1 and cannot be changed. Note that regionId is the first parameter in the default profile.
- You must set the domain parameter to dysmsapi.ap-southeast-1.aliyuncs.com.
- You must set the version parameter to 2018-05-01.

Sample code

```
using System;
using System.Collections.Generic;
using Aliyun.Acs.Core;
using Aliyun.Acs.Core.Profile;
using Aliyun.Acs.Core.Exceptions;
using Aliyun.Acs.Core.Http;
namespace CommonRequestDemo
{
    class Program
    {
        static void Main(string[] args)
        {
            IClientProfile profile = DefaultProfile.GetProfile("ap-southeast-1", "<accessKe
yId>", "<accessSecret>");
            DefaultAcsClient client = new DefaultAcsClient(profile);
            CommonRequest request = new CommonRequest();
            request.Method = MethodType.POST;
            request.Domain = "sms-intl.ap-southeast-1.aliyuncs.com";
            request.Version = "2018-05-01";
            request.Action = "BatchSendMessageToGlobe";
            // request.Protocol = ProtocolType.HTTP;
            try {
                CommonResponse response = client.GetCommonResponse(request);
                Console.WriteLine(System.Text.Encoding.Default.GetString(response.HttpRespo
nse.Content));
            }
            catch (ServerException e)
            {
                Console.WriteLine(e);
            }
            catch (ClientException e)
            {
                Console.WriteLine(e);
            }
        }
    }
}
```