

ALIBABA CLOUD

# 阿里云

## 语音服务 SDK参考（新版）

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格式	说明	样例
 危险	该类警示信息将导致系统重大变更甚至故障，或者导致人身伤害等结果。	 危险 重置操作将丢失用户配置数据。
 警告	该类警示信息可能会导致系统重大变更甚至故障，或者导致人身伤害等结果。	 警告 重启操作将导致业务中断，恢复业务时间约十分钟。
 注意	用于警示信息、补充说明等，是用户必须了解的内容。	 注意 权重设置为0，该服务器不会再接受新请求。
 说明	用于补充说明、最佳实践、窍门等，不是用户必须了解的内容。	 说明 您也可以通过按Ctrl+A选中全部文件。
>	多级菜单递进。	单击设置> 网络> 设置网络类型。
<b>粗体</b>	表示按键、菜单、页面名称等UI元素。	在结果确认页面，单击确定。
<code>Courier</code> 字体	命令或代码。	执行 <code>cd /d C:/window</code> 命令，进入Windows系统文件夹。
<i>斜体</i>	表示参数、变量。	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[ ] 或者 [a b]	表示可选项，至多选择一个。	<code>ipconfig [-all -t]</code>
{ } 或者 {a b}	表示必选项，至多选择一个。	<code>switch {active stand}</code>

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# 1.SDK升级说明

本次SDK升级不涉及功能变更，主要是为了提升开发者使用体验。通过本次升级，丰富了语音服务的SDK代码示例，并加强了代码示例的校验。

对比项	旧版SDK	新版SDK
方案	基于模版生成，各编程语言之间采用不同的模版方案，各个语言之间功能完备程度不一致，使用体验不一致。	基于TeaDSL方案生成。新方案通过统一的中间表达，具备语法校验。
代码示例	各语言间的代码示例不一致，不能保证代码的正确性。	各语言间的代码在逻辑行为上保持一致，通过中间语言来统一生成，具有校验能力，有效保证示例代码的准确性。
代码提示	仅有接口提示，缺乏注解提示。理解参数、返回值、方法作用上需要看文档	完备的接口、字段、注释和返回值提示，提供更好的IDE提示。

## 2.使用OpenAPI Explorer

阿里云语音服务为您提供OpenAPI Explorer在线调用工具，帮助您快速调用SDK进行调用和调试。本章节以调用SingleCallByTts向指定号码发起语音验证码为您示例。

OpenAPIExplorer语音服务

### 前提条件

您已经完成注册阿里云账号，并完成实名认证，具体操作请参见[阿里云账号注册流程](#)。

您需要开通语音服务并完成购买号码等操作，详情请参见[快速入门](#)。

### 操作步骤

1. 登录[OpenAPI Explorer](#)。
2. 在搜索输入框输入[云通信语音服务](#)。



3. 在云通信语音服务页面，输入[SingleCallByTts](#)快速定位到该接口具体调用页面。
4. 根据API文档说明，填写各参数取值，右侧示例代码会自动生成对应SDK的Demo代码。

本章节调用接口参数说明，详情请参见[SingleCallByTts](#)。

5. 单击发起调用。
  - o 正常返回示例。

```
{"Message": "OK",  
  "RequestId": "2886A9EB-44B6-43C6-9E2F-031ECCCE4CEB",  
  "Code": "OK",  
  "CallId": "118697418557^1054"}"
```

- o 异常返回示例。

```
{"Message": "文本转语音模板不合法",  
  "RequestId": "AE3D4BAE-F95C-4C0B-9C1E-DDF0F49C5645",  
  "Code": "isv.TEMPLATE_ILLEGAL"}
```

## 3. 安装SDK

参考本文档安装语音服务SDK。

### Java SDK

在Maven项目文件中添加以下依赖：

```
<dependency>
<groupId>com.aliyun</groupId>
<artifactId>dyvmsapi20170525</artifactId>
<version>0.0.2</version>
</dependency>
```

### Go SDK

推荐使用go工具进行安装：

```
go get github.com/alibabacloud-go/Dyvmsapi-20170525/client@v1.2.1
```

### .NET SDK

推荐使用dotnet工具进行安装：

```
dotnet add package AlibabaCloud.SDK.Dyvmsapi20170525 --version 0.1.0
```

### PHP SDK

推荐使用composer工具进行安装：

```
composer require alibabacloud/dyvmsapi-20170525
```

### TypeScript/Node.js SDK

推荐使用NPM工具进行安装：

```
npm install @alicloud/dyvmsapi20170525@^1.2.0 --save
```

## 4.SDK示例

### 4.1. 语音通知

本示例展示了语音通知功能的实现方法。您可以通过调用SingleCallByVoice发起语音文件类型的语音通知，调用SingleCallByTts发起文本转语音类型的语音通知。

#### 功能介绍

语音通知可解决通知到达率延迟、关注度不高、阅读体验差等问题，并且您可以通过电话获得更全面的信息通知。您只需要提前设置通知模版内容，调用API就可以给用户推送语音通知，并可以设置播放音量、播放次数等。

#### 准备工作

在实现调用API实现语音通知功能前，您需要完成以下操作：

- 在“[语音号码](#)”页面完成资质的申请和号码的购买。
- 在“[文本转语音模板](#)”页面完成模板申请，或在“[语音通知文件](#)”页面完成文件上传。
- 获取AccessKey信息，详情请参见[获取AccessKey](#)。
- 完成本地SDK环境搭建，详情请参见[安装SDK](#)。

#### 代码示例

本示例展示了如何调用SingleCallByVoice接口发送语音通知。接口参数详情请参见[SingleCallByVoice](#)和[SingleCallByTts](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun;

import com.aliyun.tea.*;

public class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param accessKeyId
     * @param accessKeySecret
     * @param regionId
     * @return Client
     * @throws Exception
     */
    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String accessKeySecret, String regionId) throws Exception {
```



```
com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
// 您的AccessKey ID
config.accessKeyId = accessKeyId;
// 您的AccessKey Secret
config.accessKeySecret = accessKeySecret;
// 您的可用区ID
config.regionId = regionId;
return new com.aliyun.dyvmsapi20170525.Client(config);
}

/**
 * @param args
 * @throws Exception
 */
public static void main(String[] args) throws Exception {
    com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    com.aliyun.dyvmsapi20170525.models.SingleCallByVoiceRequest request = com.aliyun.dyvmsapi20170525.models.SingleCallByVoiceRequest.build(TeaConverter.buildMap(
        // 被叫显号，若您使用的模板为公共号池号码外呼模板，则该字段值必须为空；
        // 若您使用的模板为专属号码外呼模板，则必须传入已购买的号码，仅支持一个号码，您可以在语音服务控制台上查看已购买的号码。
        new TeaPair("calledShowNumber", "18850xxxx"),
        // 被叫号码。仅支持中国内地号码。一次请求仅支持一个被叫号。
        new TeaPair("calledNumber", "15750xxxx"),
        // 语音文件的语音ID。
        new TeaPair("voiceCode", "e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav")
    ));
    com.aliyun.dyvmsapi20170525.models.SingleCallByVoiceResponse response = client.singleCallByVoice(request);
    com.aliyun.teaconsole.Client.log(response.message);
}
}
```

```
# This file is auto-generated, don't edit it. Thanks.
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsApiClientClient
from alibabacloud_tea_rpc import models as _rpc_models
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models
from alibabacloud_tea_console.client import Client as ConsoleClient
```

```
class Client:

    @staticmethod
    def create_client(access_key_id, access_key_secret, region_id):
        """
        使用AK&SK初始化账号Client

        :type access_key_id: str
        :param access_key_id:

        :type access_key_secret: str
        :param access_key_secret:

        :type region_id: str
        :param region_id:

        :return: Client
        @throws Exception
        """
        config = _rpc_models.Config(
        )
        # 您的AccessKey ID
        config.access_key_id = access_key_id
        # 您的AccessKey Secret
        config.access_key_secret = access_key_secret
        # 您的可用区ID
        config.region_id = region_id
        return DyvmsapiClientClient(config)

    @staticmethod
    def main(args):
        """

        :param args:
        @throws Exception
        """
        client = create_client("accessKeyId", "accessKeySecret", "regionId")
        request = dyvmsapi_client_models.SingleCallByVoiceRequest(
            called_show_number="18850xxxx",
```

```
called_number="15750xxxx",
voice_code="e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav"
)
response = client.single_call_by_voice(request)
ConsoleClient.log(response.message)
def __init__(self):
    pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    console "github.com/alibabacloud-go/tea-console/client"
    "github.com/alibabacloud-go/tea/tea"
)

/**
 * 使用AK&SK初始化账号Client
 * @param accessKeyId
 * @param accessKeySecret
 * @param regionId
 * @return Client
 * @throws Exception
 */
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client, _err error) {
    config := &rpc.Config{}
    // 您的AccessKey ID
    config.AccessKeyId = accessKeyId
    // 您的AccessKey Secret
    config.AccessKeySecret = accessKeySecret
    // 您的可用区ID
    config.RegionId = regionId
    _result = &dyvmsapiclient.Client{}
    _result, _err = dyvmsapiclient.NewClient(config)
    return _result, _err
}
```

```
/**
 * @param args
 * @throws Exception
 */
func Main (args []*string) (_err error) {
    client, _err := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("regionId"))
    if _err != nil {
        return _err
    }

    request := &dyvmsapiclient.SingleCallByVoiceRequest{
        // 被叫显号，若您使用的模板为公共号池号码外呼模板，则该字段值必须为空；
        // 若您使用的模板为专属号码外呼模板，则必须传入已购买的号码，仅支持一个号码，您可以在语音服务
        // 控制台上查看已购买的号码。
        CalledShowNumber: tea.String("18850xxxx"),
        // 被叫号码。仅支持中国内地号码。一次请求仅支持一个被叫号。
        CalledNumber: tea.String("15750xxxx"),
        // 语音文件的语音ID。
        VoiceCode: tea.String("e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav"),
    }
    response, _err := client.SingleCallByVoice(request)
    if _err != nil {
        return _err
    }

    console.Log(response.Message)
    return _err
}
```

```
<?php

// This file is auto-generated, don't edit it. Thanks.
namespace Alibabacloud\Dyvmsapi20170525;

use AlibabaCloud\SDK\Dyvmsapi\V20170525\Dyvmsapi;
use AlibabaCloud\Tea\Console\Console;

use AlibabaCloud\Tea\Rpc\Rpc\Config;
```

```
use AlibabaCloud\SDK\DyvmSapi\V20170525\Models\SingleCallByVoiceRequest;
use AlibabaCloud\SDK\DyvmSapi\V20170525\Models\SingleCallByVoiceResponse;

class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param string $accessKeyId
     * @param string $accessKeySecret
     * @param string $regionId
     * @return DyvmSapi Client
     */
    public static function createClient($accessKeyId, $accessKeySecret, $regionId){
        $config = new Config([]);
        // 您的AccessKey ID
        $config->accessKeyId = $accessKeyId;
        // 您的AccessKey Secret
        $config->accessKeySecret = $accessKeySecret;
        // 您的可用区ID
        $config->regionId = $regionId;
        return new DyvmSapi($config);
    }

    /**
     * @param array $args
     * @return void
     */
    public static function main($args){
        $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");
        $request = new SingleCallByVoiceRequest([
            // 被叫显号，若您使用的模板为公共号池号码外呼模板，则该字段值必须为空；
            // 若您使用的模板为专属号码外呼模板，则必须传入已购买的号码，仅支持一个号码，您可以在语音服务
            // 控制台上查看已购买的号码。
            "calledShowNumber" => "18850xxxx",
            // 被叫号码。仅支持中国内地号码。一次请求仅支持一个被叫号。
            "calledNumber" => "15750xxxx",
            // 语音文件的语音ID。
            "voiceCode" => "e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav"
        ]);
        $response = $client->singleCallByVoice($request);
        Console::log($response->message);
    }
}
```

```
}  
}
```

```
// This file is auto-generated, don't edit it. Thanks.  
  
using System;  
using System.Collections;  
using System.Collections.Generic;  
using System.IO;  
using System.Threading.Tasks;  
  
using Tea;  
using Tea.Utils;  
  
namespace com.aliyun  
{  
    public class Client  
    {  
  
        /**  
        * 使用AK&SK初始化账号Client  
        * @param accessKeyId  
        * @param accessKeySecret  
        * @param regionId  
        * @return Client  
        * @throws Exception  
        */  
        public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)  
        {  
            AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config()  
            ;  
            // 您的AccessKey ID  
            config.AccessKeyId = accessKeyId;  
            // 您的AccessKey Secret  
            config.AccessKeySecret = accessKeySecret;  
            // 您的可用区ID  
            config.RegionId = regionId;  
            return new AlibabaCloud.SDK.Dyvmsapi20170525.Client(config);  
        }  
    }  
}
```

```
}

/**
 * @param args
 * @throws Exception
 */
public static void Main(string[] args)
{
    AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.SingleCallByVoiceRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.SingleCallByVoiceRequest
    {
        // 被叫显号，若您使用的模板为公共号池号码外呼模板，则该字段值必须为空；
        // 若您使用的模板为专属号码外呼模板，则必须传入已购买的号码，仅支持一个号码，您可以在语音服务控制台上查看已购买的号码。
        CalledShowNumber = "18850xxxx",
        // 被叫号码。仅支持中国内地号码。一次请求仅支持一个被叫号。
        CalledNumber = "15750xxxx",
        // 语音文件的语音ID。
        VoiceCode = "e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav",
    };
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.SingleCallByVoiceResponse response = client.SingleCallByVoice(request);
    AlibabaCloud.TeaConsole.Client.Log(response.Message);
}

}
}
```

```
// This file is auto-generated, don't edit it
import DyvmsapiClient, * as $DyvmsapiClient from '@alicloud/dyvmsapi20170525';
import RPC, * as $RPC from '@alicloud/rpc-client';
import Console from '@alicloud/tea-console';
import * as $tea from '@alicloud/tea-typescript';

export default class Client {
```

```
/**
 * 使用AK&SK初始化账号Client
 * @param accessKeyId
 * @param accessKeySecret
 * @param regionId
 * @return Client
 * @throws Exception
 */
static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): DyvmsapiClient {
    let config = new $RPC.Config({ });
    // 您的AccessKey ID
    config.accessKeyId = accessKeyId;
    // 您的AccessKey Secret
    config.accessKeySecret = accessKeySecret;
    // 您的可用区ID
    config.regionId = regionId;
    return new DyvmsapiClient(config);
}

/**
 * @param args
 * @throws Exception
 */
static async main(args: string[]): Promise<void> {
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    let request = new $DyvmsapiClient.SingleCallByVoiceRequest({
        // 被叫显号, 若您使用的模板为公共号池号码外呼模板, 则该字段值必须为空;
        // 若您使用的模板为专属号码外呼模板, 则必须传入已购买的号码, 仅支持一个号码, 您可以在语音服务
        // 控制台上查看已购买的号码。
        calledShowNumber: "18850xxxx",
        // 被叫号码. 仅支持中国内地号码. 一次请求仅支持一个被叫号。
        calledNumber: "15750xxxx",
        // 语音文件的语音ID。
        voiceCode: "e271f3f2-e155-4366-a9f4-0fe55765b3ec.wav",
    });
    let response = await client.singleCallByVoice(request);
    Console.log(response.message);
}
}
```



## 执行结果

正常返回结果如下所示：

```
{
  "Message": "OK",
  "RequestId": "4ABF7FB6-449C-4624-8CC6-9AAE3684xxxx",
  "Code": "OK",
  "CallId": "118720962490^10551812xx"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。

## 4.2. 语音IVR

本示例展示了如何调用IvrCall实现交互式语音应答。

### 功能介绍

语音IVR是指通过调用语音呼叫的API，从运营商网络向指定号码发起一通呼叫，呼叫被接起后，播放一段指定音频，用户根据音频引导，通过手机按键信息返回意图，语音平台通过消息回执返回按键信息给企业业务系统。

### 准备工作

在实现调用API实现语音IVR功能前，您需要完成以下操作：

- 在“[语音号码](#)”页面完成资质的申请和号码的购买。
- 在“[文本转语音模板](#)”页面完成模板申请，或在“[语音通知文件](#)”页面完成文件上传。
- 获取AccessKey信息，详情请参见[获取AccessKey](#)。
- 完成本地SDK环境搭建，详情请参见[安装SDK](#)。

### 代码示例

本示例展示了如何调用IvrCall进行语音交互。接口详情请参见[IvrCall](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun;

import com.aliyun.tea.*;

public class Client {

  /**
   * 使用AK/SK初始化账号Client
   */
}
```

```
    * 使用AK&SK初始化账号Client
    * @param accessKeyId
    * @param accessKeySecret
    * @param regionId
    * @return Client
    * @throws Exception
    */
    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String accessKeySecret, String regionId) throws Exception {
        com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
        // 您的AccessKey ID
        config.accessKeyId = accessKeyId;
        // 您的AccessKey Secret
        config.accessKeySecret = accessKeySecret;
        // 您的可用区ID
        config.regionId = regionId;
        return new com.aliyun.dyvmsapi20170525.Client(config);
    }

    /**
    * @param args
    * @throws Exception
    */
    public static void main(String[] args) throws Exception {
        com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
        com.aliyun.dyvmsapi20170525.models.IvrCallRequest request = com.aliyun.dyvmsapi20170525.models.IvrCallRequest.build(TeaConverter.buildMap(
            // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
            new TeaPair("calledNumber", "05715621xx"),
            // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
            new TeaPair("calledNumber", "1500000xx"),
            // 呼叫开始时播放的提示音。
            // 语音文件：语音ID。可以在文本转语音模板页面查看语音ID。
            // 文本转语音模板：模板ID。可以在文本转语音模板页面查看模板ID。
            new TeaPair("startCode", "TTS_713900000"),
            // 文本转语音模板内的变量参数，格式为JSON。
            // 当StartCode为文本转语音模板（TTS）、且模板中带变量的情况下此参数为必选。
            new TeaPair("startTtsParams", "{product:'aliyun',code:'123'}")
        ));
        com.aliyun.dyvmsapi20170525.models.IvrCallResponse response = client.ivrCall(request);
    }
}
```

```
}  
}
```

```
# This file is auto-generated, don't edit it. Thanks.  
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsapiClientClient  
from alibabacloud_tea_rpc import models as _rpc_models  
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models  
  
class Client:  
  
    @staticmethod  
    def create_client(access_key_id, access_key_secret, region_id):  
        """  
        使用AK&SK初始化账号Client  
  
        :type access_key_id: str  
        :param access_key_id:  
  
        :type access_key_secret: str  
        :param access_key_secret:  
  
        :type region_id: str  
        :param region_id:  
  
        :return: Client  
        @throws Exception  
        """  
        config = _rpc_models.Config(  
  
        )  
        # 您的AccessKey ID  
        config.access_key_id = access_key_id  
        # 您的AccessKey Secret  
        config.access_key_secret = access_key_secret  
        # 您的可用区ID  
        config.region_id = region_id  
        return DyvmsapiClientClient(config)  
  
    @staticmethod
```

```
def main(args):
    """

    :param args:
    @throws Exception
    """
    client = create_client("accessKeyId", "accessKeySecret", "regionId")
    request = dyvmsapi_client_models.IvrCallRequest(
        called_number="05715621xx",
        called_number="1500000xx",
        start_code="TTS_713900000",
        start_tts_params="{product:'aliyun',code:'123'}"
    )
    response = client.ivr_call(request)
def __init__(self):
    pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    "github.com/alibabacloud-go/tea/tea"
)

/**
 * 使用AK&SK初始化账号Client
 * @param accessKeyId
 * @param accessKeySecret
 * @param regionId
 * @return Client
 * @throws Exception
 */
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client) {
    config := &rpc.Config{}
    // 您的AccessKey ID
    config.AccessKeyId = accessKeyId
    // 您的AccessKey Secret
```

```
// 您的AccessKey Secret
config.AccessKeySecret = accessKeySecret
// 您的可用区ID
config.RegionId = regionId
_result = &dyvmsapiclient.Client{}
_result, _err = dyvmsapiclient.NewClient(config)
return _result
}

/**
 * @param args
 * @throws Exception
 */
func Main (args []*string) (_err error) {
client := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("regionId"))
request := &dyvmsapiclient.IvrCallRequest{
// 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
CalledNumber: tea.String("05715621xx"),
// 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
CalledNumber: tea.String("1500000xx"),
// 呼叫开始时播放的提示音。
// 语音文件：语音ID。可以在文本转语音模板页面查看语音ID。
// 文本转语音模板：模板ID。可以在文本转语音模板页面查看模板ID。
StartCode: tea.String("TTS_713900000"),
// 文本转语音模板内的变量参数，格式为JSON。
// 当StartCode为文本转语音模板（TTS）、且模板中带变量的情况下此参数为必选。
StartTtsParams: tea.String("{\"product':'aliyun','code':'123'}"),
}
response, _err := client.IvrCall(request)
if _err != nil {
return _err
}

return _err
}
```

```
<?php

// This file is auto-generated, don't edit it. Thanks.
namespace DarabonhaSDK:
```

```
namespace AlibabaCloud {  
  
    use AlibabaCloud\SDK\Dyvmsapi\V20170525\Dyvmsapi;  
  
    use AlibabaCloud\Tea\Rpc\Rpc\Config;  
    use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\IvrCallRequest;  
    use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\IvrCallResponse;  
  
    class Client {  
  
        /**  
        * 使用AK&SK初始化账号Client  
        * @param string $accessKeyId  
        * @param string $accessKeySecret  
        * @param string $regionId  
        * @return Dyvmsapi Client  
        */  
        public static function createClient($accessKeyId, $accessKeySecret, $regionId){  
            $config = new Config([]);  
            // 您的AccessKey ID  
            $config->accessKeyId = $accessKeyId;  
            // 您的AccessKey Secret  
            $config->accessKeySecret = $accessKeySecret;  
            // 您的可用区ID  
            $config->regionId = $regionId;  
            return new Dyvmsapi($config);  
        }  
  
        /**  
        * @param array $args  
        * @return void  
        */  
        public static function main($args){  
            $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");  
            $request = new IvrCallRequest([  
                // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。  
                "calledNumber" => "05715621xx",  
                // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。  
                "calledNumber" => "1500000xx",  
                // 呼叫开始时播放的提示音。  
                // 语音文件：语音ID。可以在文本转语音模板页面查看语音ID。  
            ]);  
        }  
    }  
}
```

```
// 文本转语音模板：模板ID。可以在文本转语音模板页面查看模板ID。
"startCode" => "TTS_713900000",
// 文本转语音模板内的变量参数，格式为JSON。
// 当StartCode为文本转语音模板（TTS）、且模板中带变量的情况下此参数为必选。
"startTtsParams" => "{product:'aliyun',code:'123'}"
]);
$response = $client->ivrCall($request);
}
}
```

```
// This file is auto-generated, don't edit it. Thanks.

using System;
using System.Collections;
using System.Collections.Generic;
using System.IO;
using System.Threading.Tasks;

using Tea;
using Tea.Utils;

namespace com.aliyun
{
    public class Client
    {
        /**
         * 使用AK&SK初始化账号Client
         * @param accessKeyId
         * @param accessKeySecret
         * @param regionId
         * @return Client
         * @throws Exception
         */
        public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)
        {
            AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config()
            ;
            // 你的AccessKey ID
```

```
// 您的AccessKey ID
config.AccessKeyId = accessKeyId;
// 您的AccessKey Secret
config.AccessKeySecret = accessKeySecret;
// 您的可用区ID
config.RegionId = regionId;
return new AlibabaCloud.SDK.Dyvmsapi20170525.Client(config);
}

/**
 * @param args
 * @throws Exception
 */
public static void Main(string[] args)
{
    AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.IvrCallRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.IvrCallRequest
    {
        // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
        CalledNumber = "05715621xx",
        // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
        CalledNumber = "1500000xx",
        // 呼叫开始时播放的提示音。
        // 语音文件：语音ID。可以在文本转语音模板页面查看语音ID。
        // 文本转语音模板：模板ID。可以在文本转语音模板页面查看模板ID。
        StartCode = "TTS_713900000",
        // 文本转语音模板内的变量参数，格式为JSON。
        // 当StartCode为文本转语音模板（TTS）、且模板中带变量的情况下此参数为必选。
        StartTtsParams = "{\"product\":\"aliyun\",\"code\":\"123\"}",
    };
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.IvrCallResponse response = client.IvrCall(request);
}

}

}

// This file is auto-generated. don't edit it
```



```
// This file is auto-generated, don't edit it

import DyvmsapiClient, * as $DyvmsapiClient from '@alicloud/dyvmsapi20170525';
import RPC, * as $RPC from '@alicloud/rpc-client';
import * as $tea from '@alicloud/tea-typescript';

export default class Client {

  /**
   * 使用AK&SK初始化账号Client
   * @param accessKeyId
   * @param accessKeySecret
   * @param regionId
   * @return Client
   * @throws Exception
   */
  static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): DyvmsapiClient {
    let config = new $RPC.Config({});
    // 您的AccessKey ID
    config.accessKeyId = accessKeyId;
    // 您的AccessKey Secret
    config.accessKeySecret = accessKeySecret;
    // 您的可用区ID
    config.regionId = regionId;
    return new DyvmsapiClient(config);
  }

  /**
   * @param args
   * @throws Exception
   */
  static async main(args: string[]): Promise<void> {
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    let request = new $DyvmsapiClient.IvrCallRequest({
      // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
      calledNumber: "05715621xx",
      // 被叫号码。仅支持中国大陆号码。单次请求仅支持一个号码。
      calledNumber: "1500000xx",
      // 呼叫开始时播放的提示音。
      // 语音文件：语音ID。可以在文本转语音模板页面查看语音ID。
    });
  }
}
```

```
// 文本转语音模板：模板ID。可以在文本转语音模板页面查看模板ID。
startCode: "TTS_713900000",
// 文本转语音模板内的变量参数，格式为JSON。
// 当StartCode为文本转语音模板（TTS）、且模板中带变量的情况下此参数为必选。
startTtsParams: '{"product':'aliyun','code':'123'}',
});
let response = await client.ivrCall(request);
}
}
```

## 执行结果

正常返回结果如下所示：

```
{
  "Message": "OK",
  "RequestId": "4ABF7FB6-449C-4624-8CC6-9AAE36845xxxx",
  "Code": "OK",
  "CallId": "118720962490^10551812xx"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。

## 4.3. 点击呼叫

本示例介绍了如何调用ClickToDial实现阿里云语音通知点击呼叫功能。

### 功能介绍

点击呼叫是指通过调用语音服务接口，通过语音服务分配的号码分别向主叫、被叫发起呼叫，双方接通后建立起正常通话，通话双方显示的号码均为语音服务平台号码。常用于企业办公电话等，例如钉钉办公电话。通过点击呼叫接口，可隐藏通话双方真实号码，同时平台可留存双方通话记录。

### 准备工作

实现点击呼叫功能前，您需要完成以下操作：

- 在“[语音号码](#)”页面完成资质的申请和号码的购买。
- 在“[文本转语音模板](#)”页面完成模板申请，或在“[语音通知文件](#)”页面完成文件上传。
- 获取AccessKey信息，详情请参见[获取AccessKey](#)。
- 完成本地SDK环境搭建，详情请参见[安装SDK](#)。

### 代码示例

本示例展示了调用ClickToDial实现阿里云语音通知点击呼叫。接口详情请参见[Click](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun.dyvmsapi20170525:*;

import com.aliyun.tea.*;

public class Client {

    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String accessKeySecret, String regionId) throws Exception {
        com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
        config.accessKeyId = accessKeyId;
        config.accessKeySecret = accessKeySecret;
        config.regionId = regionId;
    }

    public static void main(String[] args) throws Exception {
        com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
        com.aliyun.dyvmsapi20170525.models.ClickToDialRequest request = com.aliyun.dyvmsapi20170525.models.ClickToDialRequest.build(TeaConverter.buildMap(
            new TeaPair("callerShowNumber", "123xxxx"),
            new TeaPair("callerNumber", "1575xxxx"),
            new TeaPair("calledShowNumber", "12xxxx"),
            new TeaPair("calledNumber", "1885xxxx")
        ));
        com.aliyun.dyvmsapi20170525.models.ClickToDialResponse response = client.clickToDial(request);
    }
}
```

```
# This file is auto-generated, don't edit it. Thanks.
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsapiClientClient
from alibabacloud_tea_rpc import models as _rpc_models
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models

class Client:

    @staticmethod
    def create_client(access_key_id, access_key_secret, region_id):
        """
        使用AK&SK初始化账号Client
        """
        config = _rpc_models.Config(

        )
        config.access_key_id = access_key_id
        config.access_key_secret = access_key_secret
        config.region_id = region_id

    @staticmethod
    def main(args):
        client = create_client("accessKeyId", "accessKeySecret", "regionId")
        request = dyvmsapi_client_models.ClickToDialRequest(
            caller_show_number="123xxxx",
            caller_number="1575xxxx",
            called_show_number="12xxxx",
            called_number="1885xxxx"
        )
        response = client.click_to_dial(request)
    def __init__(self):
        pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    "github.com/alibabacloud-go/tea/tea"
)

// 使用AK&SK初始化账号Client
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client) {
    config := &rpc.Config{}
    config.AccessKeyId = accessKeyId
    config.AccessKeySecret = accessKeySecret
    config.RegionId = regionId
    return _result
}

func Main (args []*string) (_err error) {
    client := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("
regionId"))
    request := &dyvmsapiclient.ClickToDialRequest{
        CallerShowNumber: tea.String("123xxxx"),
        CallerNumber: tea.String("1575xxxx"),
        CalledShowNumber: tea.String("12xxxx"),
        CalledNumber: tea.String("1885xxxx"),
    }
    response, _err := client.ClickToDial(request)
    if _err != nil {
        return _err
    }

    return _err
}
```

```
<?php
```

```
// This file is auto-generated, don't edit it. Thanks.
```

```
namespace alibabacloud/dyvmsapi-20170525: ^0\1\0;

use AlibabaCloud\SDK\Dyvmsapi\V20170525\Dyvmsapi;

use AlibabaCloud\Tea\Rpc\Rpc\Config;
use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\ClickToDialRequest;
use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\ClickToDialResponse;

class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param string $accessKeyId
     * @param string $accessKeySecret
     * @param string $regionId
     * @return Dyvmsapi
     */
    public static function createClient($accessKeyId, $accessKeySecret, $regionId){
        $config = new Config([]);
        $config->accessKeyId = $accessKeyId;
        $config->accessKeySecret = $accessKeySecret;
        $config->regionId = $regionId;
    }

    /**
     * @param array $args
     * @return void
     */
    public static function main($args){
        $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");
        $request = new ClickToDialRequest([
            "callerShowNumber" => "123xxxx",
            "callerNumber" => "1575xxxx",
            "calledShowNumber" => "12xxxx",
            "calledNumber" => "1885xxxx"
        ]);
        $response = $client->clickToDial($request);
    }
}
```

```
// This file is auto-generated, don't edit it. Thanks.

using System;
using System.Collections;
using System.Collections.Generic;
using System.IO;
using System.Threading.Tasks;

using Tea;
using Tea.Utils;

namespace AlibabaCloud.SDK.Dyvmsapi20170525:*
{
    public class Client
    {

        // 使用AK&SK初始化账号Client
        public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)
        {
            AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config();
            ;
            config.AccessKeyId = accessKeyId;
            config.AccessKeySecret = accessKeySecret;
            config.RegionId = regionId;
        }

        public static void Main(string[] args)
        {
            AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
            AlibabaCloud.SDK.Dyvmsapi20170525.Models.ClickToDialRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.ClickToDialRequest
            {
                CallerShowNumber = "123xxxx",
                CallerNumber = "1575xxxx",
                CalledShowNumber = "12xxxx",
                CalledNumber = "1885xxxx",
            };
            AlibabaCloud.SDK.Dyvmsapi20170525.Models.ClickToDialResponse response = client.ClickTo
```

```
Dial(request);
}

}
}
```

```
// This file is auto-generated, don't edit it
import DyvmsapiClient, * as $DyvmsapiClient from '@alicloud/dyvmsapi20170525';
import RPC, * as $RPC from '@alicloud/rpc-client';
import * as $tea from '@alicloud/tea-typescript';

export default class Client {

  // 使用AK&SK初始化账号Client
  static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): DyvmsapiClient {
    let config = new $RPC.Config({});
    config.accessKeyId = accessKeyId;
    config.accessKeySecret = accessKeySecret;
    config.regionId = regionId;
  }

  static async main(args: string[]): Promise<void> {
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    let request = new $DyvmsapiClient.ClickToDialRequest({
      callerShowNumber: "123xxxx",
      callerNumber: "1575xxxx",
      calledShowNumber: "12xxxx",
      calledNumber: "1885xxxx",
    });
    let response = await client.clickToDial(request);
  }
}
```

## 执行结果

正常返回结果如下所示：



```
{
  "Message": "OK",
  "RequestId": "4ABF7FB6-449C-4624-8CC6-9AAE368453AA",
  "Code": "OK",
  "CallId": "118720962490^10551812xx"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。

## 4.4. 取消点击呼叫

本示例介绍了如何调用CancelCall取消ClickToDial接口发起的呼叫。

### 功能介绍

点击呼叫是指通过调用语音服务接口，通过语音服务分配的号码分别向主叫、被叫发起呼叫，双方接通后建立起正常通话，通话双方显示的号码均为语音服务平台号码。常用于企业办公电话等，例如钉钉办公电话。通过点击呼叫接口，可隐藏通话双方真实号码，同时平台可留存双方通话记录。

### 准备工作

调用该API实现取消点击呼叫功能之前，您需要成功调用ClickToDial实现点击呼叫，并获取CallId。

### 代码示例

接口详情请参见[CancelCall](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun;

import com.aliyun.tea.*;

public class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param accessKeyId
     * @param accessKeySecret
     * @param regionId
     * @return Client
     * @throws Exception
     */
    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String ac
```

```

    accessKeySecret, String regionId) throws Exception {
        com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
        // 您的AccessKey ID
        config.accessKeyId = accessKeyId;
        // 您的AccessKey Secret
        config.accessKeySecret = accessKeySecret;
        // 您的可用区ID
        config.regionId = regionId;
        return new com.aliyun.dyvmsapi20170525.Client(config);
    }

    /**
     * @param args
     * @throws Exception
     */
    public static void main(String[] args) throws Exception {
        com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
        com.aliyun.dyvmsapi20170525.models.CancelCallRequest request = com.aliyun.dyvmsapi20170525.models.CancelCallRequest.build(TeaConverter.buildMap(
            // 通话的唯一回执ID。
            new TeaPair("callId", "117059405036^10385912xx")
        ));
        // 发起请求
        com.aliyun.dyvmsapi20170525.models.CancelCallResponse response = client.cancelCall(request);
    }
}

```

```

# This file is auto-generated, don't edit it. Thanks.
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsapiClientClient
from alibabacloud_tea_rpc import models as _rpc_models
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models

class Client:

    @staticmethod
    def create_client(access_key_id, access_key_secret, region_id):
        """
        伟田AK&SK初始化账号Client

```

```
"""
:type access_key_id: str
:param access_key_id:

:type access_key_secret: str
:param access_key_secret:

:type region_id: str
:param region_id:

:return: Client
@throws Exception
"""
config = _rpc_models.Config(
)
# 您的AccessKey ID
config.access_key_id = access_key_id
# 您的AccessKey Secret
config.access_key_secret = access_key_secret
# 您的可用区ID
config.region_id = region_id
return DyvmsapiClientClient(config)

@staticmethod
def main(args):
"""
:param args:
@throws Exception
"""
client = create_client("accessKeyId", "accessKeySecret", "regionId")
request = dyvmsapi_client_models.CancelCallRequest(
call_id="117059405036^10385912xx"
)
# 发起请求
response = client.cancel_call(request)
def __init__(self):
pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    "github.com/alibabacloud-go/tea/tea"
)

/**
 * 使用AK&SK初始化账号Client
 * @param accessKeyId
 * @param accessKeySecret
 * @param regionId
 * @return Client
 * @throws Exception
 */
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client) {
    config := &rpc.Config{}
    // 您的AccessKey ID
    config.AccessKeyId = accessKeyId
    // 您的AccessKey Secret
    config.AccessKeySecret = accessKeySecret
    // 您的可用区ID
    config.RegionId = regionId
    _result = &dyvmsapiclient.Client{}
    _result, _err = dyvmsapiclient.NewClient(config)
    return _result
}

/**
 * @param args
 * @throws Exception
 */
func Main (args []*string) (_err error) {
    client := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("
regionId"))
    request := &dyvmsapiclient.CancelCallRequest{
        // 请求的ID，同创建
```

```
// 通话的唯一回执ID。
CallId: tea.String("117059405036^10385912xx"),
}
// 发起请求
response, _err := client.CancelCall(request)
if _err != nil {
return _err
}

return _err
}
```

```
<?php

// This file is auto-generated, don't edit it. Thanks.
namespace DarabonbaSDK;

use AlibabaCloud\SDK\Dyvmapi\V20170525\Dyvmapi;

use AlibabaCloud\Tea\Rpc\Rpc\Config;
use AlibabaCloud\SDK\Dyvmapi\V20170525\Models\CancelCallRequest;
use AlibabaCloud\SDK\Dyvmapi\V20170525\Models\CancelCallResponse;

class Client {

/**
 * 使用AK&SK初始化账号Client
 * @param string $accessKeyId
 * @param string $accessKeySecret
 * @param string $regionId
 * @return Dyvmapi Client
 */
public static function createClient($accessKeyId, $accessKeySecret, $regionId){
$config = new Config([]);
// 您的AccessKey ID
$config->accessKeyId = $accessKeyId;
// 您的AccessKey Secret
$config->accessKeySecret = $accessKeySecret;
// 您的可用区ID
$config->regionId = $regionId;
return new Dyvmapi($config);
}
```

```
return new DydnsApi($config);
}

/**
 * @param array $args
 * @return void
 */
public static function main($args){
    $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");
    $request = new CancelCallRequest([
        // 通话的唯一回执ID。
        "callId" => "117059405036^10385912xx"
    ]);
    // 发起请求
    $response = $client->cancelCall($request);
}
}
```

```
// This file is auto-generated, don't edit it. Thanks.
```

```
using System;
using System.Collections;
using System.Collections.Generic;
using System.IO;
using System.Threading.Tasks;
```

```
using Tea;
using Tea.Utils;
```

```
namespace com.aliyun
```

```
{
    public class Client
    {
```

```
        /**
         * 使用AK&SK初始化账号Client
         * @param accessKeyId
         * @param accessKeySecret
         * @param regionId
         * @return Client
```

```
* @throws Exception
*/
public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)
{
    AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config();
    ;
    // 您的AccessKey ID
    config.AccessKeyId = accessKeyId;
    // 您的AccessKey Secret
    config.AccessKeySecret = accessKeySecret;
    // 您的可用区ID
    config.RegionId = regionId;
    return new AlibabaCloud.SDK.Dyvmsapi20170525.Client(config);
}

/**
 * @param args
 * @throws Exception
 */
public static void Main(string[] args)
{
    AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.CancelCallRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.CancelCallRequest
    {
        // 通话的唯一回执ID。
        CallId = "117059405036^10385912xx",
    };
    // 发起请求
    AlibabaCloud.SDK.Dyvmsapi20170525.Models.CancelCallResponse response = client.CancelCall(request);
}

}
}
```

```
// This file is auto-generated, don't edit it
```

```
import DyvmsApiClient, * as $DyvmsApiClient from '@alicloud/dyvms-api20170525';
import RPC, * as $RPC from '@alicloud/rpc-client';
import * as $tea from '@alicloud/tea-typescript';

export default class Client {

  /**
   * 使用AK&SK初始化账号Client
   * @param accessKeyId
   * @param accessKeySecret
   * @param regionId
   * @return Client
   * @throws Exception
   */
  static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): DyvmsApiClient {
    let config = new $RPC.Config({});
    // 您的AccessKey ID
    config.accessKeyId = accessKeyId;
    // 您的AccessKey Secret
    config.accessKeySecret = accessKeySecret;
    // 您的可用区ID
    config.regionId = regionId;
    return new DyvmsApiClient(config);
  }

  /**
   * @param args
   * @throws Exception
   */
  static async main(args: string[]): Promise<void> {
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    let request = new $DyvmsApiClient.CancelCallRequest({
      // 通话的唯一回执ID。
      callId: "117059405036^10385912xx",
    });
    // 发起请求
    let response = await client.cancelCall(request);
  }
}
```



```
}
```

## 执行结果

正常的结果如下所示：

```
{
  "Status": "true",
  "Message": "OK",
  "RequestId": "D9CB3933-9FE3-4870-BA8E-2BEE91B69D23",
  "Code": "OK"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。

## 4.5. 智能外呼

本示例介绍了如何调用SmartCall发起智能语音交互通话。

### 功能介绍

在智能语音交互通话中，支持使用控制台预设的机器人话术，或在每轮通话中通过回调接口返回业务方设置的回应方式。接口SmartCall需要和[智能语音交互呼出回调HTTP接口](#)联合使用，语音平台发起呼叫后，会把转换后的语音文本回传给业务方，业务方把下一步的执行动作返回给语音平台。

### 准备工作

调用API实现智能外呼功能之前，您需要完成以下操作：

- 购买语音号码并审核通过语音模板或语音文件，具体操作请参见[快速入门](#)。
- 获取AccessKey信息，详情请参见[获取AccessKey](#)。
- 完成本地SDK环境搭建，详情请参见[Java SDK](#)。
- 已在[服务开通页面](#)开通智能外呼ASR，并在[订阅回执消息页面](#)开启智能外呼ASR实时交互。详情请参见[回调接口说明](#)和[智能外呼回调HTTP接口](#)。

### 代码示例

接口详情请参见[SmartCall](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun.dyvmsapi20170525:*;

import com.aliyun.tea.*;

public class Client {

    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String accessKeySecret, String regionId) throws Exception {
        com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
        config.accessKeyId = accessKeyId;
        config.accessKeySecret = accessKeySecret;
        config.regionId = regionId;
    }

    public static void main(String[] args) throws Exception {
        com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
        com.aliyun.dyvmsapi20170525.models.SmartCallRequest request = com.aliyun.dyvmsapi20170525.models.SmartCallRequest.build(TeaConverter.buildMap(
            new TeaPair("calledShowNumber", "0633676xx"),
            new TeaPair("calledNumber", "10xx"),
            new TeaPair("voiceCode", "3355eedd-3706-4f75-bff9-e645e88e1730.wav"),
            new TeaPair("pauseTime", 800),
            new TeaPair("muteTime", 10000),
            new TeaPair("actionCodeBreak", false)
        ));
        com.aliyun.dyvmsapi20170525.models.SmartCallResponse response = client.smartCall(request);
    }
}
```

```
# This file is auto-generated, don't edit it. Thanks.
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsapiClientClient
from alibabacloud_tea_rpc import models as _rpc_models
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models

class Client:

    @staticmethod
    def create_client(access_key_id, access_key_secret, region_id):
        """
        使用AK&SK初始化账号Client
        """
        config = _rpc_models.Config(

        )
        config.access_key_id = access_key_id
        config.access_key_secret = access_key_secret
        config.region_id = region_id

    @staticmethod
    def main(args):
        client = create_client("accessKeyId", "accessKeySecret", "regionId")
        request = dyvmsapi_client_models.SmartCallRequest(
            called_show_number="0633676xx",
            called_number="10xx",
            voice_code="3355eedd-3706-4f75-bff9-e645e88e1730.wav",
            pause_time=800,
            mute_time=10000,
            action_code_break=False
        )
        response = client.smart_call(request)
    def __init__(self):
        pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    "github.com/alibabacloud-go/tea/tea"
)

// 使用AK&SK初始化账号Client
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client) {
    config := &rpc.Config{}
    config.AccessKeyId = accessKeyId
    config.AccessKeySecret = accessKeySecret
    config.RegionId = regionId
    return _result
}

func Main (args []*string) (_err error) {
    client := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("
regionId"))
    request := &dyvmsapiclient.SmartCallRequest{
        CalledShowNumber: tea.String("0633676xx"),
        CalledNumber: tea.String("10xx"),
        VoiceCode: tea.String("3355eedd-3706-4f75-bff9-e645e88e1730.wav"),
        PauseTime: tea.Int(800),
        MuteTime: tea.Int(10000),
        ActionCodeBreak: tea.Bool(false),
    }
    response, _err := client.SmartCall(request)
    if _err != nil {
        return _err
    }

    return _err
}
```

```
<?php
```

```
// This file is auto-generated, don't edit it. Thanks.
namespace alibabacloud/dyvmsapi-20170525:^0\1\0;

use AlibabaCloud\SDK\Dyvmsapi\V20170525\Dyvmsapi;

use AlibabaCloud\Tea\Rpc\Rpc\Config;
use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\SmartCallRequest;
use AlibabaCloud\SDK\Dyvmsapi\V20170525\Models\SmartCallResponse;

class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param string $accessKeyId
     * @param string $accessKeySecret
     * @param string $regionId
     * @return Dyvmsapi
     */
    public static function createClient($accessKeyId, $accessKeySecret, $regionId){
        $config = new Config([]);
        $config->accessKeyId = $accessKeyId;
        $config->accessKeySecret = $accessKeySecret;
        $config->regionId = $regionId;
    }

    /**
     * @param array $args
     * @return void
     */
    public static function main($args){
        $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");
        $request = new SmartCallRequest([
            "calledShowNumber" => "0633676xx",
            "calledNumber" => "10xx",
            "voiceCode" => "3355eedd-3706-4f75-bff9-e645e88e1730.wav",
            "pauseTime" => 800,
            "muteTime" => 10000,
            "actionCodeBreak" => false
        ]);
        $response = $client->smartCall($request);
    }
}
```

```
response = client.SmartCall(request);
}
}

// This file is auto-generated, don't edit it. Thanks.

using System;
using System.Collections;
using System.Collections.Generic;
using System.IO;
using System.Threading.Tasks;

using Tea;
using Tea.Utils;

namespace AlibabaCloud.SDK.Dyvmsapi20170525:*
{
    public class Client
    {

        // 使用AK&SK初始化账号Client
        public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)
        {
            AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config()
            ;
            config.AccessKeyId = accessKeyId;
            config.AccessKeySecret = accessKeySecret;
            config.RegionId = regionId;
        }

        public static void Main(string[] args)
        {
            AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
            AlibabaCloud.SDK.Dyvmsapi20170525.Models.SmartCallRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.SmartCallRequest
            {
                CalledShowNumber = "0633676xx",
                CalledNumber = "10xx",
            }
        }
    }
}
```

```
    VoiceCode = "3355eedd-3706-4f75-bff9-e645e88e1730.wav",
    PauseTime = 800,
    MuteTime = 10000,
    ActionCodeBreak = false,
};
AlibabaCloud.SDK.Dyvmsapi20170525.Models.SmartCallResponse response = client.SmartCa
ll(request);
}

}
}
```

```
// This file is auto-generated, don't edit it
import DyvmsapiClient, * as $DyvmsapiClient from '@alicloud/dyvmsapi20170525';
import RPC, * as $RPC from '@alicloud/rpc-client';
import * as $tea from '@alicloud/tea-typescript';

export default class Client {

  // 使用AK&SK初始化账号Client
  static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): DyvmsapiClient {
    let config = new $RPC.Config({});
    config.accessKeyId = accessKeyId;
    config.accessKeySecret = accessKeySecret;
    config.regionId = regionId;
  }

  static async main(args: string[]): Promise<void> {
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
    let request = new $DyvmsapiClient.SmartCallRequest({
      calledShowNumber: "0633676xx",
      calledNumber: "10xx",
      voiceCode: "3355eedd-3706-4f75-bff9-e645e88e1730.wav",
      pauseTime: 800,
      muteTime: 10000,
      actionCodeBreak: false,
    });
    let response = await client.smartCall(request);
  }
}
```

## 执行结果

正常返回结果如下所示：



```
{
  "Message": "OK",
  "RequestId": "A90E4451-FED7-49D2-87C8-00700A8C4D0D",
  "Code": "OK",
  "CallId": "116012854210^10281427xx"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。

## 4.6. 查询通话记录详情

本示例介绍了如何调用QueryCallDetailByCallId查询通话记录详情。

### 功能介绍

当您调用接口成功实现语音通知、语音验证码、语音IVR、点击拨号、智能外呼功能，您可以调用QueryCallDetailByCallId根据接口返回的CallId查询某个时间点的通话记录。

### 准备工作

- 在“[语音号码](#)”页面完成资质的申请和号码的购买。
- 在“[文本转语音模板](#)”页面完成模板申请，或在“[语音通知文件](#)”页面完成文件上传。
- 获取AccessKey信息，详情请参见[获取AccessKey](#)。
- 完成本地SDK环境搭建，详情请参见[安装SDK](#)。

### 代码示例

接口详情请参见[QueryCallDetailByCallId](#)。

如果您需要进行调试请参考[使用OpenAPI Explorer](#)。

```
// This file is auto-generated, don't edit it. Thanks.
package com.aliyun.dyvmsapi20170525:*;

import com.aliyun.tea.*;

public class Client {

    public static com.aliyun.dyvmsapi20170525.Client createClient(String accessKeyId, String accessKeySecret, String regionId) throws Exception {
        com.aliyun.tearpc.models.Config config = new com.aliyun.tearpc.models.Config();
        config.accessKeyId = accessKeyId;
        config.accessKeySecret = accessKeySecret;
        config.regionId = regionId;
    }

    public static void main(String[] args) throws Exception {
        com.aliyun.dyvmsapi20170525.Client client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");
        com.aliyun.dyvmsapi20170525.models.QueryCallDetailByCallIdRequest request = com.aliyun.dyvmsapi20170525.models.QueryCallDetailByCallIdRequest.build(TeaConverter.buildMap(
            new TeaPair("callId", "100625930001^10019107xx"),
            new TeaPair("prodId", 11000000300004),
            new TeaPair("queryDate", 1577255564)
        ));
        com.aliyun.dyvmsapi20170525.models.QueryCallDetailByCallIdResponse response = client.queryCallDetailByCallId(request);
    }
}
```

```
# This file is auto-generated, don't edit it. Thanks.
from alibabacloud_dyvmsapi20170525.client import Client as DyvmsapiClientClient
from alibabacloud_tea_rpc import models as _rpc_models
from alibabacloud_dyvmsapi20170525 import models as dyvmsapi_client_models

class Client:

    @staticmethod
    def create_client(access_key_id, access_key_secret, region_id):
        """
        使用AK&SK初始化账号Client
        """
        config = _rpc_models.Config(

        )
        config.access_key_id = access_key_id
        config.access_key_secret = access_key_secret
        config.region_id = region_id

    @staticmethod
    def main(args):
        client = create_client("accessKeyId", "accessKeySecret", "regionId")
        request = dyvmsapi_client_models.QueryCallDetailByCallIdRequest(
            call_id="100625930001^10019107xx",
            prod_id=11000000300004,
            query_date=1577255564
        )
        response = client.query_call_detail_by_call_id(request)
    def __init__(self):
        pass
```

```
// This file is auto-generated, don't edit it. Thanks.
package client

import (
    dyvmsapiclient "github.com/alibabacloud-go/dyvmsapi-20170525/client"
    rpc "github.com/alibabacloud-go/tea-rpc/client"
    "github.com/alibabacloud-go/tea/tea"
)

// 使用AK&SK初始化账号Client
func CreateClient (accessKeyId *string, accessKeySecret *string, regionId *string) (_result *
dyvmsapiclient.Client) {
    config := &rpc.Config{}
    config.AccessKeyId = accessKeyId
    config.AccessKeySecret = accessKeySecret
    config.RegionId = regionId
    return _result
}

func Main (args []*string) (_err error) {
    client := CreateClient(tea.String("accessKeyId"), tea.String("accessKeySecret"), tea.String("
regionId"))
    request := &dyvmsapiclient.QueryCallDetailByCallIdRequest{
        CallId: tea.String("100625930001^10019107xx"),
        ProdId: tea.Int64(11000000300004),
        QueryDate: tea.Int64(1577255564),
    }
    response, _err := client.QueryCallDetailByCallId(request)
    if _err != nil {
        return _err
    }

    return _err
}
```

```
<?php
```

```
// This file is auto-generated, don't edit it. Thanks.
namespace alibabacloud/dyvmsapi-20170525:^0\1\0;
```

```
use AlibabaCloud\SDK\Dyvmapi\V20170525\Dyvmapi;

use AlibabaCloud\Tea\Rpc\Rpc\Config;
use AlibabaCloud\SDK\Dyvmapi\V20170525\Models\QueryCallDetailByCallIdRequest;
use AlibabaCloud\SDK\Dyvmapi\V20170525\Models\QueryCallDetailByCallIdResponse;

class Client {

    /**
     * 使用AK&SK初始化账号Client
     * @param string $accessKeyId
     * @param string $accessKeySecret
     * @param string $regionId
     * @return Dyvmapi
     */
    public static function createClient($accessKeyId, $accessKeySecret, $regionId){
        $config = new Config([]);
        $config->accessKeyId = $accessKeyId;
        $config->accessKeySecret = $accessKeySecret;
        $config->regionId = $regionId;
    }

    /**
     * @param array $args
     * @return void
     */
    public static function main($args){
        $client = self::createClient("accessKeyId", "accessKeySecret", "regionId");
        $request = new QueryCallDetailByCallIdRequest([
            "callId" => "100625930001^10019107xx",
            "prodId" => 11000000300004,
            "queryDate" => 1577255564
        ]);
        $response = $client->queryCallDetailByCallId($request);
    }
}
```

```
// This file is auto-generated, don't edit it. Thanks.
```

```
using System;
using System.Collections;
using System.Collections.Generic;
using System.IO;
using System.Threading.Tasks;

using Tea;
using Tea.Utils;

namespace AlibabaCloud.SDK.Dyvmsapi20170525:*
{
    public class Client
    {

        // 使用AK&SK初始化账号Client
        public static AlibabaCloud.SDK.Dyvmsapi20170525.Client CreateClient(string accessKeyId, string accessKeySecret, string regionId)
        {
            AlibabaCloud.RPCClient.Models.Config config = new AlibabaCloud.RPCClient.Models.Config();
            ;
            config.AccessKeyId = accessKeyId;
            config.AccessKeySecret = accessKeySecret;
            config.RegionId = regionId;
        }

        public static void Main(string[] args)
        {
            AlibabaCloud.SDK.Dyvmsapi20170525.Client client = Client.CreateClient("accessKeyId", "accessKeySecret", "regionId");
            AlibabaCloud.SDK.Dyvmsapi20170525.Models.QueryCallDetailByCallIdRequest request = new AlibabaCloud.SDK.Dyvmsapi20170525.Models.QueryCallDetailByCallIdRequest
            {
                CallId = "100625930001^10019107xx",
                ProdId = 11000000300004,
                QueryDate = 1577255564,
            };
            AlibabaCloud.SDK.Dyvmsapi20170525.Models.QueryCallDetailByCallIdResponse response = client.QueryCallDetailByCallId(request);
        }
    }
}
```

```
}  
}
```

```
// This file is auto-generated, don't edit it  
import DyvmsApiClient, * as $DyvmsApiClient from '@alicloud/dyvmsapi20170525';  
import RPC, * as $RPC from '@alicloud/rpc-client';  
import * as $tea from '@alicloud/tea-typescript';  
  
export default class Client {  
  
  // 使用AK&SK初始化账号Client  
  static createClient(accessKeyId: string, accessKeySecret: string, regionId: string): Dyvmsa  
  piClient {  
    let config = new $RPC.Config({});  
    config.accessKeyId = accessKeyId;  
    config.accessKeySecret = accessKeySecret;  
    config.regionId = regionId;  
  }  
  
  static async main(args: string[]): Promise<void> {  
    let client = Client.createClient("accessKeyId", "accessKeySecret", "regionId");  
    let request = new $DyvmsApiClient.QueryCallDetailByCallIdRequest({  
      callId: "100625930001^10019107xx",  
      prodId: 11000000300004,  
      queryDate: 1577255564,  
    });  
    let response = await client.queryCallDetailByCallId(request);  
  }  
  
}
```

## 执行结果

正常的执行结果如下所示。

```
{
  "Data":{"caller":"1876713xx","startDate":"","stateDesc":"502","duration":0,"callerShowNumber":"0534475xx","gmtCreate":"2019-12-24 20:09:06","state":"502","endDate":"","calleeShowNumber":"0534475xx","callee":"1373546xx"}
  "Message": "OK",
  "RequestId": "A5291B00-1036-4CA2-8BFD-1238B784C9BA",
  "Code": "OK"
}
```

调用SDK返回错误码，详情请参见[错误码列表](#)。



## 5. 消息回执

### 5.1. .NET Demo

本章节为您介绍.NET语言获取回执消息示例方法。

#### 下载SDK

获取回执消息依赖.NET语言的阿里云SDK核心库及dybaseapi，其中dybaseapi包用于拉取MNS消息。您需要下载阿里云以下SDK：

- [阿里云SDK核心库](#)。
- [aliyun-net-sdk-dybaseapi](#)。

#### 示例方法

```
using System;
using Aliyun.Acs.Core;
using Aliyun.Acs.Core.Profile;
using Aliyun.Acs.Core.Exceptions;
using Aliyun.Acs.Dybaseapi.Model.V20170525;
using Aliyun.Acs.Dybaseapi.MNS;
using Aliyun.Acs.Dybaseapi.MNS.Model;
using System.Threading;
using System.Collections.Generic;
using System.Text;
using QueryTokenForMnsQueue_MessageTokenDTO = Aliyun.Acs.Dybaseapi.Model.V20170525.QueryTokenForMnsQueueResponse.QueryTokenForMnsQueue_MessageTokenDTO;

namespace CommonRpc
{
    class Program
    {
        static void Main(string[] args)
        {
            IClientProfile profile = DefaultProfile.GetProfile("cn-hangzhou", "<AccessKeyId>", "<AccessKeySecret>"); // todo: 补充AK信息

            DefaultProfile.AddEndpoint("cn-hangzhou", "cn-hangzhou", "Dybaseapi", "dybaseapi.aliyuncs.com");

            DefaultAcsClient client = new DefaultAcsClient(profile);

            String queueName = "<QueueName>"; // todo: 补充队列名称
            String messageType = "<MessageType>"; // todo: 补充消息类型
```

```
int maxThread = 2;

for (int i = 0; i < maxThread; i++)
{
    TestTask testTask = new TestTask("PullMessageTask-thread-" + i, messageType, queueName, client);
    Thread t = new Thread(new ThreadStart(testTask.Handle));
    //启动线程
    t.Start();
}
Console.ReadKey();

try
{
    QueryTokenForMnsQueueRequest request = new QueryTokenForMnsQueueRequest
    {
        MessageType = messageType,
        QueueName = queueName
    };

    QueryTokenForMnsQueueResponse response = client.GetAcsResponse(request);
    Console.WriteLine(response.MessageTokenDTO.SecurityToken);
}
catch (ServerException ex)
{
    Console.WriteLine(ex.ToString());
}
catch (ClientException ex)
{
    Console.WriteLine(ex.ToString());
}
}

class TestTask
{
    object o = new object();
    const int sleepTime = 50;
    const long bufferTime = 60 * 2; // 过期时间小于2分钟则重新获取，防止服务器时间误差
    const String mnsAccountEndpoint = "https://1943695596114318.mns.cn-hangzhou.aliyuncs.com/"; // 阿
```

里通信消息的endpoint,固定

```
public String name { get; private set; }
public String messageType { get; private set; }
public String QueueName { get; private set; }
public int TaskID { get; private set; }
public IAcsClient AcsClient { get; private set; }

public TestTask(String name, String messageType, String queueName, IAcsClient acsClient)
{
    this.name = name;
    this.messageType = messageType;
    this.QueueName = queueName;
    this.AcsClient = acsClient;
}

readonly Dictionary<string, QueryTokenForMnsQueue_MessageTokenDTO> tokenMap = new Dictionary
<string, QueryTokenForMnsQueue_MessageTokenDTO>();
readonly Dictionary<string, Queue> queueMap = new Dictionary<string, Queue>();

public QueryTokenForMnsQueue_MessageTokenDTO GetTokenByMessageType(IAcsClient acsClient, S
tring messageType)
{
    QueryTokenForMnsQueueRequest request = new QueryTokenForMnsQueueRequest
    {
        MessageType = messageType
    };
    QueryTokenForMnsQueueResponse queryTokenForMnsQueueResponse = acsClient.GetAcsResponse(r
equest);
    QueryTokenForMnsQueue_MessageTokenDTO token = queryTokenForMnsQueueResponse.MessageTo
kenDTO;
    return token;
}

/// 处理消息
public void Handle()
{
    while (true)
    {
        try
        {
```

```
QueryTokenForMnsQueue_MessageTokenDTO token = null;
Queue queue = null;
lock (o)
{
    if (tokenMap.ContainsKey(messageType))
    {
        token = tokenMap[messageType];
    }

    if (queueMap.ContainsKey(QueueName))
    {
        queue = queueMap[QueueName];
    }

    TimeSpan ts = new TimeSpan(0);

    if (token != null)
    {
        DateTime b = Convert.ToDateTime(token.ExpireTime);
        DateTime c = Convert.ToDateTime(DateTime.Now);
        ts = b - c;
    }

    if (token == null || ts.TotalSeconds < bufferTime || queue == null)
    {
        token = GetTokenByMessageType(AcsClient, messageType);
        IMNS client = new MNSClient(token.AccessKeyId, token.AccessKeySecret, mnsAccountEndpoint, token.SecurityToken);
        queue = client.GetNativeQueue(QueueName);
        if (tokenMap.ContainsKey(messageType))
        {
            tokenMap.Remove(messageType);
        }
        if (queueMap.ContainsKey(QueueName))
        {
            queueMap.Remove(QueueName);
        }
        tokenMap.Add(messageType, token);
        queueMap.Add(QueueName, queue);
    }
}
```

```
},  
  
BatchReceiveMessageResponse batchReceiveMessageResponse = queue.BatchReceiveMessage(16);  
List<Message> messages = batchReceiveMessageResponse.Messages;  
  
for (int i = 0; i <= messages.Count - 1; i++)  
{  
    try  
    {  
        byte[] outputb = Convert.FromBase64String(messages[i].Body);  
        string orgStr = Encoding.UTF8.GetString(outputb);  
        Console.WriteLine(orgStr);  
        // TODO 具体消费逻辑,待客户自己实现.  
        // 消费成功的前提下删除消息  
        // queue.DeleteMessage(messages[i].ReceiptHandle);  
    }  
    catch (Exception e)  
    {  
        Console.WriteLine(e.ToString());  
    }  
}  
  
catch (Exception e)  
{  
    Console.WriteLine(e.ToString());  
}  
Thread.Sleep(sleepTime);  
}  
}
```

## 5.2. PHP Demo

本章节为您介绍PHP语言获取回执消息示例方法。

### 下载SDK

获取回执消息依赖Client包和SDK包，您需要下载以下SDK：

- [openapi-sdk-php-client](#)。
- [openapi-sdk-php](#)。

## 示例方法

```
<?php
use AlibabaCloud\Client\AlibabaCloud;
use AlibabaCloud\Client\Exception\ClientException;
use AlibabaCloud\Client\Exception\ServerException;
use AlibabaCloud\Dybaseapi\MNS\Requests\BatchReceiveMessage;
use AlibabaCloud\Dybaseapi\MNS\Requests\BatchDeleteMessage;

AlibabaCloud::accessKeyClient('<AccessKeyId>', '<AccessSecret>')
->regionId('cn-hangzhou')
->asGlobalClient();

$queueName = '<QueueName>'; // 队列名称
$messageType = '<MessageType>'; // 需要接收的消息类型

$response = null;
$token = null;
$i = 0;

do {
    try {
        if (null == $token || strtotime($token['ExpireTime']) - time() > 2 * 60) {
            $response = AlibabaCloud::rpcRequest()
                ->product('Dybaseapi')
                ->version('2017-05-25')
                ->action('QueryTokenForMnsQueue')
                ->method('POST')
                ->host("dybaseapi.aliyuncs.com")
                ->options([
                    'query' => [
                        'MessageType' => $messageType,
                        'QueueName' => $queueName,
                    ],
                ])
                ->request()
                ->toArray();
        }

        $token = $response['MessageTokenDTO'];
```

```
$mnsClient = new \AlibabaCloud\Dybaseapi\MNS\MnsClient(
    "http://1943695596114318.mns.cn-hangzhou.aliyuncs.com",
    $token['AccessKeyId'],
    $token['AccessKeySecret'],
    $token['SecurityToken']
);
$mnsRequest = new BatchReceiveMessage(10, 5);
$mnsRequest->setQueueName($queueName);
$mnsResponse = $mnsClient->sendRequest($mnsRequest);

$receiptHandles = Array();
foreach ($mnsResponse->Message as $message) {
    // 用户逻辑:
    // $receiptHandles[] = $message->ReceiptHandle; // 加入$receiptHandles数组中的记录将会被删除
    $messageBody = base64_decode($message->MessageBody); // base64解码后的JSON字符串
    print_r($messageBody . "\n");
}

if (count($receiptHandles) > 0) {
    $deleteRequest = new BatchDeleteMessage($queueName, $receiptHandles);
    $mnsClient->sendRequest($deleteRequest);
}
} catch (ClientException $e) {
    echo $e->getErrorMessage() . PHP_EOL;
} catch (ServerException $e) {
    if ($e->getCode() == 404) {
        $i++;
    }
    echo $e->getErrorMessage() . PHP_EOL;
}
} while ($i < 3);
```

## 5.3. Python Demo

本章节为您介绍Python语言获取回执消息示例方法。

### 下载SDK

获取回执消息依赖Python语言的阿里云SDK核心库及dybaseapi，其中dybaseapi包用于拉取MNS消息，您需要下载以下SDK：

- [阿里云SDK核心库](#)。

- [aliyun-python-sdk-dybaseapi](#)。

## 示例方法

```
#!/usr/bin/env python
# coding=utf8

import time
from aliynsdkcore.acs_exception.exceptions import ServerException
from aliynsdkcore.client import AcsClient
from aliynsdkdybaseapi.request.v20170525.QueryTokenForMnsQueueRequest import QueryTokenForMnsQueueRequest
from aliynsdkcore.profile import region_provider
from datetime import datetime
from aliynsdkdybaseapi.mns.account import Account
from aliynsdkdybaseapi.mns.queue import *
from aliynsdkdybaseapi.mns.mns_exception import *

try:
import json
except ImportError:
import simplejson as json

# TODO 需要替换成您需要接收的消息类型
message_type = "<MessageType>"
# TODO 需要替换成您的队列名称。在云通信页面开通相应业务消息后，就能在页面上获得对应的queueName
queue_name = "<QueueName>"

# 云通信固定的endpoint地址
endpoint = "http://1943695596114318.mns.cn-hangzhou.aliyuncs.com"

acs_client = AcsClient("<AccessKeyId>", "<AccessKeySecret>", "cn-hangzhou")
region_provider.add_endpoint("Dybaseapi", "dybaseapi.aliyuncs.com", "cn-hangzhou")

# 云通信业务token存在失效时间，需动态更新。
class Token():
def __init__(self):
self.token = None
self.tmp_access_id = None
self.tmp_access_key = None
```



```
self.expire_time = None

def is_refresh(self):
    if self.expire_time is None:
        return 1
    # 失效时间与当前系统时间比较，提前2分钟刷新token
    now = datetime.now()
    expire = datetime.strptime(self.expire_time, "%Y-%m-%d %H:%M:%S")
    if expire <= now or (expire - now).seconds < 120:
        return 1
    return 0

def refresh(self):
    print("start refresh token...")
    request = QueryTokenForMnsQueueRequest()
    request.set_MessageType(message_type)
    request.set_QueueName(queue_name)
    response = acs_client.do_action_with_exception(request)
    # print response
    if response is None:
        raise ServerException("GET_TOKEN_FAIL", "获取token时无响应")

    response_body = json.loads(response)

    if response_body.get("Code") != "OK":
        raise ServerException("GET_TOKEN_FAIL", "获取token失败")

    sts_token = response_body.get("MessageTokenDTO")
    self.tmp_access_key = sts_token.get("AccessKeySecret")
    self.tmp_access_id = sts_token.get("AccessKeyId")
    self.expire_time = sts_token.get("ExpireTime")
    self.token = sts_token.get("SecurityToken")

    print("finish refresh token...")

# 初始化 token, my_account, my_queue
token, my_account, my_queue = Token(), None, None

# 循环读取删除消息直到队列空
```

```
# receive message请求使用long polling方式, 通过wait_seconds指定长轮询时间为3秒

## long polling 解析:
### 当队列中有消息时, 请求立即返回;
### 当队列中没有消息时, 请求在MNS服务器端挂3秒钟, 在这期间, 有消息写入队列, 请求会立即返回消息, 3秒后, 请求返回队列没有消息;

wait_seconds = 3
print("%sReceive And Delete Message From Queue%s\nQueueName:%s\nWaitSeconds:%s\n" % (
    10 * "=", 10 * "=", queue_name, wait_seconds))

while True:
    receipt_handles = []
    # 读取消息
    try:
        # token过期是否需要刷新
        if token.is_refresh() == 1:
            # 刷新token
            token.refresh()
        if my_account:
            my_account.mns_client.close_connection()
            my_account = None

        if not my_account:
            my_account = Account(endpoint, token.tmp_access_id, token.tmp_access_key, token.token)
            my_queue = my_account.get_queue(queue_name)

        # 接收消息
        recv_msgs = my_queue.batch_receive_message(10, wait_seconds)

        for recv_msg in recv_msgs:
            # TODO 业务处理

            # receipt_handles.append(recv_msg.receipt_handle)
            print("Receive Message Succeed! ReceiptHandle:%s MessageBody:%s MessageID:%s" % (
                recv_msg.receipt_handle, recv_msg.message_body, recv_msg.message_id))

    except MNSExceptionBase as e:
        if e.type == "QueueNotExist":
            print("Queue not exist, please create queue before receive message.")
            break
```

```
elif e.type == "MessageNotExist":
    print("Queue is empty! sleep 10s")
    time.sleep(10)
    continue
    print("Receive Message Fail! Exception:%s\n" % e)
    break

# 删除消息
try:
    if len(receipt_handles) > 0:
        # my_queue.delete_message(receipt_handles)
        print("Delete Message Succeed! ReceiptHandles:%s" % receipt_handles)
    except MNSExceptionBase as e:
        print("Delete Message Fail! Exception:%s\n" % e)
```

## 5.4. Go Demo

本章节为您介绍Go语言获取回执消息示例方法。

### 下载SDK

获取回执消息，您需要下载[alibaba-cloud-sdk-go](#)。

### 示例方法

```
import (
    "encoding/base64"
    "fmt"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/endpoints"
    "github.com/aliyun/alibaba-cloud-sdk-go/services/dybaseapi"
    "github.com/aliyun/alibaba-cloud-sdk-go/services/dybaseapi/mns"
    "time"
)

const (
    mnsDomain = "1943695596114318.mns.cn-hangzhou.aliyuncs.com"
)

func main() {
    endpoints.AddEndpointMapping("cn-hangzhou", "Dybaseapi", "dybaseapi.aliyuncs.com")

    // 创建client实例
    client_err := dybaseapi.NewClientWithAccessKey(
```

```
client, err := dybaseapi.NewClientWithAccessKey(
    "cn-hangzhou", // 您的可用区ID
    "<AccessKeyId>", // 您的Access Key ID
    "<AccessKeySecret>") // 您的Access Key Secret
if err != nil {
    // 异常处理
    panic(err)
}

queueName := "<QueueName>"
messageType := "<MessageType>"

var token *dybaseapi.MessageTokenDTO

for {
    if token == nil || token.ExpireTime - time.Now().Unix() > 2 * 60 {
        // 创建API请求并设置参数
        request := dybaseapi.CreateQueryTokenForMnsQueueRequest()
        request.MessageType = messageType
        request.QueueName = queueName
        // 发起请求并处理异常
        response, err := client.QueryTokenForMnsQueue(request)
        if err != nil {
            // 异常处理
            panic(err)
        }

        token = &response.MessageTokenDTO
    }

    mnsClient, err := mns.NewClientWithStsToken(
        "cn-hangzhou",
        token.AccessKeyId,
        token.AccessKeySecret,
        token.SecurityToken,
    )

    if err != nil {
        panic(err)
    }
}
```

```
mnsRequest := mns.CreateBatchReceiveMessageRequest()
mnsRequest.Domain = mnsDomain
mnsRequest.QueueName = queueName
mnsRequest.NumOfMessages = "10"
mnsRequest.WaitSeconds = "5"

mnsResponse, err := mnsClient.BatchReceiveMessage(mnsRequest)
if err != nil {
    panic(err)
}
// fmt.Println(mnsResponse)

receiptHandles := make([]string, len(mnsResponse.Message))
for i, message := range mnsResponse.Message {
    messageBody, decodeErr := base64.StdEncoding.DecodeString(message.MessageBody)
    if decodeErr != nil {
        panic(decodeErr)
    }
    fmt.Println(string(messageBody))
    receiptHandles[i] = message.ReceiptHandle
}
if len(receiptHandles) > 0 {
    mnsDeleteRequest := mns.CreateBatchDeleteMessageRequest()
    mnsDeleteRequest.Domain = mnsDomain
    mnsDeleteRequest.QueueName = queueName
    mnsDeleteRequest.SetReceiptHandles(receiptHandles)
    //_, err = mnsClient.BatchDeleteMessage(mnsDeleteRequest) // 取消注释将删除队列中的消息
    if err != nil {
        panic(err)
    }
}
}
```

## 6. 错误码列表

本章节为您介绍阿里云语音服务SDK错误码列表。

错误码	描述
OK	请求成功
isp.RAM_PERMISSION_DENY	RAM权限DENY
isv.OUT_OF_SERVICE	业务停机
isv.PRODUCT_UN_SUBSCRIPT	未开通云通信产品的阿里云客户
isv.OUT_OF_SERVICE	业务停机
isv.PRODUCT_UNSUBSCRIBE	产品未开通
isv.ACCOUNT_NOT_EXISTS	账户不存在
isv.ACCOUNT_ABNORMAL	账户异常
isv.TTS_TEMPLATE_ILLEGAL	TTS模板不合法
isv.DISPLAY_NUMBER_ILLEGAL	号显不合法
isv.TEMPLATE_MISSING_PARAMETERS	文本转语音模板参数缺失
isv.BLACK_KEY_CONTROL_LIMIT	模板变量中存在黑名单关键字
isv.INVALID_PARAMETERS	参数异常
isv.PARAM_NOT_SUPPORT_URL	变量不支持url参数
isp.SYSTEM_ERROR	系统错误
isv.MOBILE_NUMBER_ILLEGAL	号码格式非法
isv.BUSINESS_LIMIT_CONTROL	触发流控
isv.PARAM_LENGTH_LIMIT	参数长度受限