

Message Service

SDK Reference

SDK Reference

Java SDK

Download instruction

MNS Java SDK

It is recommended to download the latest SDK to obtain the best performance and stability.

Version 1.1.8

Update Date

2016-12-15 [Download SDK](#), [Download Sample](#).

Updates

- Add SMS (short message service) subscription for Topic.

Help

Download the sample and decompress `aliyun-sdk-mns-samples-1.1.8.zip`;

Import the Maven project using Eclipse and select the `aliyun-sdk-mns-samples` folder;

Create the `.aliyun-mns.properties` file in the user directory, (`"/home/YOURNAME/"` in Linux or `"C:\Users\YOURNAME"` in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
```

```
mns.accesskeyid=$your_accesskeyid  
mns.accesskeysecret=$your_accesskeysecret
```

pom配置

```
<dependency>  
<groupId>com.aliyun.mns</groupId>  
<artifactId>aliyun-sdk-mns</artifactId>  
<version>1.1.8</version>  
<classifier>jar-with-dependencies</classifier>  
</dependency>
```

Version 1.1.7

Update Date

2016-08-30 SDK Download Sample Download.

Updates

Make CloudAccount singleton(same ClientConfiguration will return same MNSClient object).

Topic suscription support JSON option.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.7.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com  
mns.accesskeyid=$your_accesskeyid  
mns.accesskeysecret=$your_accesskeysecret
```

Version 1.1.5

Update Date

2016-05-26 SDK Download Sample Download.

Updates

Add TransactionQueue.

Add broadcast message.

- Add demo code for performance test.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.5.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java , TopicSample.java , CloudPullTopicDemo.java (demo for broadcast) , TransactionMessageDemo.java (demo for transaction message) , TransactionMessageDemo2.java (Simple demo for transaction message which need more failover operations).

Version 1.1.4

Update Date

2016-04-25 SDK Download Sample Download.

Updates

Subscription supports Queue/Mail Endpoint

Topic supports message tag

- BugFix: fix long polling timeout problem due to the number of connection exceed the maxConnectionsPerRoute.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.4.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java and TopicSample.java file

Version 1.1.3

Update Date

2016-03-28 SDK Download Sample Download

Updates

- Support HTTPS.
- Remove the default value of priority ,dequeueCount, delaySeconds of Message.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.3.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
```

```
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java and TopicSample.java file

Version 1.1.2

Update Date

2016-01-30 SDK Download Sample Download

Updates

- fixbug: popMessage API set waitseconds default value to 0 while waitseconds isn't provided.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.2.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com  
mns.accesskeyid=$your_accesskeyid  
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java and TopicSample.java file

Version 1.1.1

Update Date

2016-01-19 SDK Download Sample Download.

Updates

- Fix bug : Using UTF-8 charset of Chinese instead of default GB charset.

Help

1. Download the sample and decompress aliyun-sdk-mns-samples-1.1.1.zip;
2. Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;
3. Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java and TopicSample.java file.

Version 1.1.0

Update Date

2016-01-06 SDK Download Sample Download.

Updates

Add support for Topic.

Add support for STS Token.

Make Message Base64 Encoding optional.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.1.0.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run QueueSample.java and TopicSample.java file.

Version 1.0.5

Update Date

2015-12-02 SDK Download Sample Download.

Updates

Fix bug: memory leak while using multiple CloudAccount Object.

Upgrade the version of httpasyncclient to 4.1.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.0.5.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run the Sample.java file.

Version 1.0.4

Update Date

2015-11-05 SDK Download ,Sample Download.

Updates

Fix bug: thread hang while network is abnormal;

Fix bug: recycle the thread while closing the free connection.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.0.4.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the .aliyun-mns.properties file in the user directory, ("/home/YOURNAME/" in Linux or "C:\Users\YOURNAME" in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run the Sample.java file.

Version 1.0.3

Update Date

2015-06-09 SDK Download Sample Download.

Updates

Fixed bug: SDKs is suspended due to a large number of close wait connections;

Added sample code;

Upgraded the API protocol: "x-mns-version" =" 2015-06-06" ;

Supports BatchSendMessage, BatchReceiveMessage, BatchPeekMessage, and BatchDeleteMessage.

Help

Download the sample and decompress aliyun-sdk-mns-samples-1.0.3.zip;

Import the Maven project using Eclipse and select the aliyun-sdk-mns-samples folder;

Create the `.aliyun-mns.properties` file in the user directory, (`"/home/YOURNAME/` " in Linux or `"C:\Users\YOURNAME"` in Windows), and specify the service address, AccessKeyID, and AccessKeySecret:

```
mns.accountendpoint=http://$accountid.mns.cn-hangzhou.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

4. Run the `Sample.java` file.

Version 1.0.2

Update Date

2015-03-03 Download.

Updates

- Optimized XML parsing logic and improved performance.

Version 1.0.1

Update Date

2014-12-19 Download

Updates

- Corrected the default thread pool size to 50 and resolved the SDK performance bottleneck for large-scale concurrent synchronization.

Version 1.0.0

Update Date

2014-08-01 Download

Queue operations

This document introduces how to use sample code in Java SDK of MNS, including `CreateQueue` , `SendMessage`, `ReceiveMessage`, `DeleteMessage` and `DeleteQueue`.

1. Preparation

1. Download the latest version of Java sdk and unzip to aliyun-sdk-mns-samples folder.
2. Import the maven project under folder: alien-idk-mns-samples.
3. Create config file with the endpoint, AccessKeyID, AccessKeySecret under the user folder (/home/YOURNAME/).
4. Config file sample:

```
mns.accountendpoint=http://$accountid.mns.$region.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

Notes:

- **AK** is the short name for **\$your_accesskeyid** and **\$your_accesskeysecret**, which are used for accessing Alibaba Cloud Service in config file above. **AK** can be fetched from following **AccessKey Website** while using main account or from **Alibaba Cloud RAM Console** while using sub-account.
- **mns.accountendpoint** is the access point for Alibaba Cloud Message Service. It can be acquired from **Message Service Console** by clicking the button **Get Endpoint** on the top right corner.

2. CreateQueue

Sample code below shows how to create queue.

```
public class CreateQueueDemo {
    public static void main(String[] args) {
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");
        MNSClient client = account.getMNSClient();

        String queueName = "TestQueue";
        QueueMeta meta = new QueueMeta(); //Set QueueMeta attributes with default values. More queue attributes
        please refer to https://intl.aliyun.com/help/doc-detail/34088.htm
        meta.setQueueName(queueName); // Set Queue Name.
        meta.setPollingWaitSeconds(15);
        meta.setMaxMessageSize(2048L);

        try {
            CloudQueue queue = client.createQueue(meta);
        } catch (ClientException ce)
        {
            System.out.println("Something wrong with the network connection between client and MNS service."
                + "Please check your network and DNS availability.");
            ce.printStackTrace();
        } catch (ServiceException ex)
        {
            se.printStackTrace();
            logger.error("MNS exception requestId:" + se.getRequestId(), se);
        }
    }
}
```

```
if (se.getErrorCode() != null) {
if (se.getErrorCode().equals("QueueNotExist"))
{
System.out.println("Queue is not exist.Please create before use");
} else if (se.getErrorCode().equals("TimeExpired"))
{
System.out.println("The request is time expired. Please check your local machine timeclock");
}
}
/*
you can get more MNS service error code from following link: https://intl.aliyun.com/help/doc-detail/34092.htm
*/
}
} catch (Exception e)
{
System.out.println("Unknown exception happened!");
e.printStackTrace();
}

client.close(); //Please close the client at the end of program.
}
}
```

3. Producer: SendMessage

To send message to the queue as the code below shows.

```
public class ProducerDemo {
public static void main(String[] args) {
CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");
MNSClient client = account.getMNSClient();

try {
CloudQueue queue = client.getQueueRef("TestQueue");
Message message = new Message();
message.setMessageBody("I am test message ");
Message putMsg = queue.putMessage(message);
System.out.println("Send message id is: " + putMsg.getMessageId());
} catch (ClientException ce)
{
System.out.println("Something wrong with the network connection between client and MNS service."
+ "Please check your network and DNS availability.");
ce.printStackTrace();
} catch (ServiceException ex)
{
se.printStackTrace();
logger.error("MNS exception requestId:" + se.getRequestId(), se);
if (se.getErrorCode() != null) {
if (se.getErrorCode().equals("QueueNotExist"))
{
System.out.println("Queue is not exist.Please create before use");
} else if (se.getErrorCode().equals("TimeExpired"))
{
System.out.println("The request is time expired. Please check your local machine timeclock");
}
}
}
```

```
/*
you can get more MNS service error code from following link: https://intl.aliyun.com/help/doc-detail/34092.htm
*/
}
} catch (Exception e)
{
System.out.println("Unknown exception happened!");
e.printStackTrace();
}

client.close();
}
}
```

4. Consumer: ReceiveMessage and DeleteMessage

Receive and delete the message sent in step 3.

```
public class ConsumerDemo {
public static void main(String[] args) {
CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");

MNSClient client = account.getMNSClient();

try{
CloudQueue queue = client.getQueueRef("TestQueue");
Message popMsg = queue.popMessage();
if (popMsg != null){
System.out.println("message handle: " + popMsg.getReceiptHandle());
System.out.println("message body: " + popMsg.getMessageBodyAsString());
System.out.println("message id: " + popMsg.getMessageId());
System.out.println("message dequeue count:" + popMsg.getDequeueCount());

//删除已经取出消费的消息
queue.deleteMessage(popMsg.getReceiptHandle());
System.out.println("delete message successfully.\n");
}
else{
System.out.println("message not exist in TestQueue.\n");
}
} catch (ClientException ce)
{
System.out.println("Something wrong with the network connection between client and MNS service."
+ "Please check your network and DNS availability.");
ce.printStackTrace();
} catch (ServiceException se)
{
se.printStackTrace();
logger.error("MNS exception requestId:" + se.getRequestId(), se);
if (se.getErrorCode() != null) {
if (se.getErrorCode().equals("QueueNotExist"))
{
System.out.println("Queue is not exist.Please create before use");
} else if (se.getErrorCode().equals("TimeExpired"))
```

```
{
System.out.println("The request is time expired. Please check your local machine timeclock");
}
/*
you can get more MNS service error code from following link:https://intl.aliyun.com/help/doc-detail/34092.htm
*/
}
} catch (Exception e)
{
System.out.println("Unknown exception happened!");
e.printStackTrace();
}

client.close();
}
}
```

5.Delete Queue

```
public class DeleteQueueDemo {
public static void main(String[] args) {
CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");

MNSClient client = account.getMNSClient();

try{
CloudQueue queue = client.getQueueRef("TestQueue");
queue.delete();
} catch (ClientException ce)
{
System.out.println("Something wrong with the network connection between client and MNS service."
+ "Please check your network and DNS availability.");
ce.printStackTrace();
} catch (ServiceException se)
{
se.printStackTrace();
} catch (Exception e)
{
System.out.println("Unknown exception happened!");
e.printStackTrace();
}

client.close();
}
}
```

Topic operations

This document introduces how to use sample code in Java SDK of MNS, including

CreateTopic , CreateSubscription , Publish Message , ReceiveMessage and DeleteTopic.

1. Preparation

1. Download the latest version of Java sdk and unzip to aliyun-sdk-mns-samples folder.
2. Import the maven project under folder: aliyun-sdk-mns-samples.
3. Create config file with the endpoint, AccessKeyID, AccessKeySecret under the user folder(/home/YOURNAME/).
4. Config file sample:

```
mns.accountendpoint=http://$accountid.mns.$region.aliyuncs.com
mns.accesskeyid=$your_accesskeyid
mns.accesskeysecret=$your_accesskeysecret
```

Notes:

- **AK** is the short name for **\$your_accesskeyid** and **\$your_accesskeysecret**, which are used for accessing Alibaba Cloud Service in config file above. AK can be fetched from following **AccessKey Website** while using main account or from **Alibaba Cloud RAM Console** while using sub-account.
- **mns.accountendpoint** is the access point for Alibaba Cloud Message Service. It can be acquired from **Message Service Console** by clicking the button **Get Endpoint** on the top right corner.

2. Create a topic

To create a topic as sample code below shows.

```
public class CreateTopicDemo {
    public static void main(String[] args) {
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");
        MNSClient client = account.getMNSClient(); // It's suggested to use singleton mode in the application code for both
        CloudAccount and MNSClient are thread safe.

        String topicName = "TestTopic";
        TopicMeta meta = new TopicMeta();
        meta.setTopicName(topicName);

        try {
            CloudTopic topic = client.createTopic(meta);
        } catch (Exception e) {
            e.printStackTrace();
            System.out.println("create topic error, " + e.getMessage());
        }

        client.close();
    }
}
```

3. Start a HttpEndpoint

There is a sample code file `HttpEndpoint.java` under folder `aliyun-sdk-mns-samples` in which lies a local http message receiver including following functions:

```
Verify signature of the push request from MNS ;  
Parse the body to push request ;  
Response the return code 200 for the push request ;
```

For the implementation of source code on `HttpEndpoint`, refer to the source code in SDK. There is a sample code file "`HttpEndpoint.java`" in folder: `src/main/java/com/aliyun/mns/sample` of Java SDK.

4. Create a subscription

Endpoint, Retry policy, message format should be set when creating subscription.

```
public class SubscribeDemo {  
    public static void main(String[] args) {  
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");  
        MNSClient client = account.getMNSClient();  
  
        CloudTopic topic = client.getTopicRef("TestTopic");  
        try {  
            SubscriptionMeta subMeta = new SubscriptionMeta();  
            subMeta.setSubscriptionName("TestSub");  
            subMeta.setEndpoint(HttpEndpoint.GenEndpointLocal());  
            subMeta.setNotifyContentFormat(SubscriptionMeta.NotifyContentFormat.XML);  
            //subMeta.setFilterTag("filterTag"); //Set filterTag for subscription  
            String subUrl = topic.subscribe(subMeta);  
            System.out.println("subscription url: " + subUrl);  
        } catch (Exception e) {  
            e.printStackTrace();  
            System.out.println("subscribe/unsubribe error");  
        }  
  
        client.close();  
    }  
}
```

5. Publish a message

To publish message to the topic after the creation of topic and subscription.

```
public class PublishMessageDemo {  
    public static void main(String[] args) {  
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");  
        MNSClient client = account.getMNSClient();  
  
        CloudTopic topic = client.getTopicRef("TestTopic");
```



```
try {
    TopicMessage msg = new Base64TopicMessage();
    msg.setMessageBody("hello world!");
    //msg.setMessageTag("filterTag"); //Set filterTag filterTag
    msg = topic.publishMessage(msg);
    System.out.println(msg.getMessageId());
    System.out.println(msg.getMessageBodyMD5());
} catch (Exception e) {
    e.printStackTrace();
    System.out.println("subscribe error");
}

client.close();
}
}
```

6. Check the message in http endpoint

Message service will push the message published in step 5 to the endpoint.

7. Cancel the subscription

Cancel the subscription if you do not want to receive the message from topic.

```
public class UnsubscribeDemo {
    public static void main(String[] args) {
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");
        MNSClient client = account.getMNSClient();

        CloudTopic topic = client.getTopicRef("TestTopic");
        try {
            topic.unsubscribe("TestSub");
        } catch (Exception e) {
            e.printStackTrace();
            System.out.println("unsubscribe error");
        }

        client.close();
    }
}
```

8. Delete a topic

```
public class DeleteTopicDemo {
    public static void main(String[] args) {
        CloudAccount account = new CloudAccount("YourAccessId", "YourAccessKey", "MNSEndpoint");
        MNSClient client = account.getMNSClient();

        CloudTopic topic = client.getTopicRef("TestTopic");
        try {
```

```
topic.delete();
} catch (Exception e) {
e.printStackTrace();
System.out.println("delete topic error");
}

client.close();
}
}
```

9. Sample for using FilterTag(An End2End Case)

```
package com.aliyun.mns.samples;

import com.aliyun.mns.client.CloudAccount;
import com.aliyun.mns.client.CloudQueue;
import com.aliyun.mns.client.CloudTopic;
import com.aliyun.mns.client.MNSClient;
import com.aliyun.mns.common.utils.ServiceSettings;
import com.aliyun.mns.model.*;

public class TopicSample {

public static void main(String[] args) {
CloudAccount account = new CloudAccount(
ServiceSettings.getMNSAccessKeyId(),
ServiceSettings.getMNSAccessKeySecret(),
ServiceSettings.getMNSAccountEndpoint());
MNSClient client = account.getMNSClient();

// step 1 : Create Queue
QueueMeta queueMeta = new QueueMeta();
queueMeta.setQueueName("TestSubForQueue");
CloudQueue queue = client.createQueue(queueMeta);
// step 2 : Create Topic
TopicMeta topicMeta = new TopicMeta();
topicMeta.setTopicName("TestTopic");
CloudTopic topic = client.createTopic(topicMeta);
// step 3 : Create Subscription(subscribes message to queue created in step 1)
SubscriptionMeta subMeta = new SubscriptionMeta();
subMeta.setSubscriptionName("TestForQueueSub");
subMeta.setNotifyContentFormat(SubscriptionMeta.NotifyContentFormat.SIMPLIFIED);
subMeta.setEndpoint(topic.generateQueueEndpoint("TestSubForQueue"));
subMeta.setFilterTag("filterTag");
topic.subscribe(subMeta);
// step 4 : Public Message
TopicMessage msg = new Base64TopicMessage();
msg.setMessageBody("hello world");
msg.setMessageTag("filterTag");
msg = topic.publishMessage(msg);
// step 5 : Get Message from queue
Message msgReceive = queue.popMessage(30);
System.out.println("ReceiveMessage From TestSubForQueue:");
```

```
System.out.println(msgReceive.getMessageBody());
System.exit(0);
}
}
```

Python SDK

Download instruction

It is suggested to download the latest version of SDK in order to get better performance and stability.

Notes

Version of Python: Above 2.5 and Below 3.0.

The Classes Account, Queue, Topic and Subscription in this sdk are not thread safe, please renew instances separately when they are used in multi-thread.

Version 1.1.4

Update Date

03-23-2017 Download SDK

Updates

Support SMS for Topic.

Support Chinese messages for Queue and Topic.

mns cmd supports specifying mns endpoint, accesskeyid and accesskeysecret with parameters.

mns cmd supports specifying coding message with base64 or not with parameters.

Version 1.1.3

Update Date

09-13-2016 Download SDK

Updates

Support customize request id header for tracking.

Add QueueEndpoint and EmailEndpoint for Topic.

Add Json format for push messages.

- Support --config_file to specify the config file for msncmd tool.

Help

Download SDK and unzip it.

Enter folder mns_python_sdk and set up environment according the instructions in file **README**.

To specify more attributes for a topic message if your topic includes MailEndpoint or SmsEndpoint. The following code shows how to set the attributes with python sdk.

```
#you can get $accountid from https://account.console.aliyun.com/#/secure
#you can get $accid and $acckey from https://ak-console.aliyun.com/#/accesskey
#you can generate $endpoint: http://$accountid.mns.cn-hangzhou.aliyuncs.com, eg.
http://1234567890123456.mns.cn-hangzhou.aliyuncs.com
my_account = Account("$endpoint", "$accid", "$acckey")
topic_name = "TestTopic"
my_topic = my_account.get_topic(topic_name)

#attributes for Mail
direct_mail = DirectMailInfo(account_name="direct_mail_account_name@aliyun-inc.com",
subject="TestMailSubject", address_type=0, is_html=0, reply_to_address=0)

#attributes for SMS
direct_sms = DirectSMSInfo(free_sign_name="SignName", template_code="TemplateCode", single=False)
direct_sms.add_receiver(receiver="$phone1", params={"name": "Tom"})
direct_sms.add_receiver(receiver="$phone2", params={"name": "David"})

#init TopicMessage
msg_body = "I am test message."
```

```
msg = TopicMessage(msg_body, "msg_tag", direct_mail, direct_sms)
try:
re_msg = my_topic.publish_message(msg)
print "Publish Message Succeed. MessageBody:%s MessageID:%s" % (msg_body, re_msg.message_id)
except MNSExceptionBase,e:
if e.type == "TopicNotExist":
print "Topic not exist, please create it."
sys.exit(1)
print "Publish Message Fail. Exception:%s" % e
```

MNS C++ SDK

It is recommended to download the latest SDK to obtain best performance and stability.

Version 1.0.0

Update date

2015-12-14 Download

Prerequisites

- A valid Alibaba Cloud developer account, see <http://www.aliyun.com>;
- Sign-up on using Alibaba Cloud MNS, see <http://www.aliyun.com/product/mns>;
- Suggest to use g++ version 4.1.2 or higher version.

Install LIB

1. Download and unzip SDK.
2. Open a command line and navigate to the unzipped folder, then run `./configure && make && sudo make install`.
3. Install library to `**/usr/local/lib` by default (this folder could be different in different systems).

Run the sample

1. Open a command line of the sample, and modify the `aliyun-mns.properties` to set the correct Endpoint/AccessId/AccessKey.
2. Run `make` in the sample folder.
3. Run `./mns_sample`.

MNS C# SDK

It is recommended to download the latest SDK to obtain the best performance and stability.

Version 1.0.0

Update Date

2015-09-10 Download

Prerequisites

- A valid Alibaba Cloud developer account, see <http://www.aliyun.com>;
- Subscription to Alibaba Cloud MNS, see <http://www.aliyun.com/product/mns>;

Run Samples

Fill the settings in SyncOperationSample/AsyncOperationSample with your Access Key ID, Access Key Secret, Account ID and Account Endpoint ;

```
private const string _accessKeyId = your access key id;
```

```
private const string _secretAccessKey = your secret access key;
```

```
private const string _endpoint = valid endpoint, e.g. http://$AccountId.mns.cn-hangzhou.aliyuncs.com;
```

Import the project into VisualStudio , select AliyunSDK_MNS_Sample as the start project ;

Set SyncOperationSample/AsyncOperationSample as StartTarget in project AliyunSDK_MNS_Sample :

4. Run the sample.

MNS PHP SDK

It is recommended to download the latest SDK to obtain best performance and stability.

Version 1.0.0

Update Date

2015-11-7 Download

Prerequisites

- A valid Alibaba Cloud developer account, see <http://www.aliyun.com>;
- Sign-up on using Alibaba Cloud MNS, see <http://www.aliyun.com/product/mns>;
- PHP version 5.5 or higher.

Usage

1. Download and unzip SDK.
2. Add `require_once (/path_to_sdk/mns-autoloader.php)` in your PHP file when using SDK.

Android SDK

Android Development Kit

Android SDK(2016-08-26) version 2.2.2

Download Address : `mns_android_sdk_20160826`

- Fix the return error incorrect bug.

Android SDK(2016-08-18) version 2.2.1

Download Address : `mns_android_sdk_20160818`

- Upgrade okhttp to version 3.x ;
- Support httpdns in scenario of using https ;
- Optimize the threadpool ;

github : <https://github.com/aliyun/aliyun-oss-android-sdk>

Unofficial SDKs

The official provision of MNS .NET SDK and Node.js SDK from Alibaba Cloud is in the plan without

exact timetable presently. You can directly invoke the MNS Restful API before official versions are available. The following are some unofficial SDKs provided by MNS users in the forum:

Unofficial Go Lang SDK:

https://github.com/weikaishio/ali_mns

Unofficial Node.js SDK:

<https://www.npmjs.com/package/ali-mns>

Unofficial iOS SDK:

<https://github.com/JuneQinEasy/AliCloudAPI>

Unofficial .NET SDK (with Official SDK):

<https://github.com/saberwang/aliyun-mqs-cshap-library>

Unofficial PHP SDK(with Official SDK):

<http://git.oschina.net/xybingbing/aliyunMQS>