# Send a SMS Message from Apex

## Prerequisites

The developer will need proficiency in:

- Salesforce.com Object model
- Apex Programming

The APIs' can be worked on via this link

Apex is a strongly-typed, object-oriented programming language that allows developers to execute flow and transaction control statements on the Salesforce Lightning Platform server, together with calls to the API.

## Object & Fields Information

There is a custom object in the SMSMagic Interact Managed package known as SMS History, and the corresponding API name is smagicinteract__smsMagic__c. This object stores SMS message data. Considering the need for complex customization for implementing various business workflows, we have provided a simple way to send SMS from Apex code.

The following table contains fields that must be populated to successfully send messages from Apex:

| Name | Field API name | Purpose | Required |
|---|---|---|---|
| SenderID | smagicinteract__SenderId__c | Phonenumber or business identity of your business | Yes |

| | | | |
|---|---|---|---|
| Mobile Number | smagicinteract__PhoneNumber__c | Phone number of Contact/Lead to whom you are sending the message. | Yes |
| Name | smagicinteract__Name__c | Name of person to whom you are sending this message. | No |
| SMSText | smagicinteract__SMSText__c | Content of message | Yes |
| Disable SMS on Trigger | smagicinteract__ disableSMSOnTrigger__c | This is used to control triggers. If set 1, the trigger is deactivated, so the message won’t be sent, only a record will be created. If set to 0, a message will be sent. It should be 0 by default. | Yes |

| | | | |
|---|---|---|---|
| External Field | smagicinteract__external_field__c | This is indexed and unique field used as a reference to update delivery reports. | Yes |
| Object Type | smagicinteract__ObjectType__c | Identifier of the object from which the message will be sent | No |
| Direction | smagicinteract__Direction__c | With 1.49 onwards, this new field is used to indicate whether it’s an outgoing or incoming message. Set its value as “OUT” for sending messages. | Yes |

## Send an SMS message from Apex code

The developer would first create an instance of the **SMS History** object, populate all required fields, and then insert the instance of that object using a database insert. SMS-Magic provides a custom trigger that will (a) execute after the insertion of the record and (b) send out messages to the **Mobile Number**. The trigger will also populate other fields in the **SMS History** object instance with default values.

This sample code sends SMS messages. Feel free to copy it and modify it according to your environment.

```
List  smsObjectList = new List ();
String senderId = 'smsMagic'; // Please replace the 'smsMagic' with your relevant sender ID.
String templateText = 'test SMS by Screen Magic'; // you can fetch the template text by querying the record on smagicinteract__SMS_Template__c object
smagicinteract__smsMagic__c smsObject = new smagicinteract__smsMagic__c();
smsObject.smagicinteract__SenderId__c = senderId;
smsObject.smagicinteract__PhoneNumber__c = contact.MobilePhone;
smsObject.smagicinteract__Name__c = contact.Name; // records name
smsObject.smagicinteract__ObjectType__c = 'Contact'; // record type
smsObject.smagicinteract__disableSMSOnTrigger__c = 0; // this field either be 0 or 1, if you specify the value as 1 then sms will not get send but entry of sms will get create under SMS History object
smsObject.smagicinteract__external_field__c = smagicinteract.ApexAPI.generateUniqueKey();
smsObject.smagicinteract__SMSText__c = templateText;
smsObjectList.add(smsObject);
Database.insert(smsObjectList, false);
```

# Troubleshooting

If you encounter any problems, consider the following:

- Ensure that your code is not invoked from a scheduled method of any other trigger.
- A user on whose behalf this code is executed must have permission to use **SMS History** objects.