

# 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.