

# Writing a .Net SMS Service Client

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Sending an SMS Text Message  
Programmatically using Microsoft .Net  
Technology

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#### Introduction

Oracle, via its developer-oriented Oracle Technology Network, has published a 'live' WebService that allows client applications to send an SMS text message anywhere in the world.

#### Simple .Net Client

In this session you will use .Net SDK to create and execute a very simple client that makes use of Oracle's (magnanimously-provided) SMS WebService.

In this session you will need:

- A 'live' web connection
- Microsoft's .Net Framework
- Microsoft's .Net Software Developer's Kit (SDK)
- A personal login on Oracle's "Oracle Technology Network." You should obtain this (it is very useful) *before* starting this session from <http://otn.oracle.com/membership>.

#### Create a Sandpit

You should create a directory solely for this session's activities.

Execute the following sequence of commands within a new Command Prompt window:

```
> mkdir C:\oranet  
> cd /d C:\oranet
```

Within the Command Prompt window, ensure that your development environment is correctly configured by executing the following command (do not type the prompt "C:\oranet>" as part of the command, this is shown for illustration, only):

```
C:\oranet> C:\Program Files\Microsoft.NET\SDK\v1.1\Bin\sdkvars.bat
```

#### Create the Client

The process is simple, but requires a couple of steps.

## Generate the WebService Client Proxy Class

This is a simple, tool driven process. Enter the following command into the Command Prompt window (the command should all be entered on a single line):

```
C:\oranet> wsdl /n:transentia
             http://otn.oracle.com/ws/9iasmobile?WSDL
```

Once the wsdl.exe tool finishes, it will create a framework for a client application in the file **OTNMobileWrapper.cs**.

You should take a look at this file to see the code that is generated.

## Create a Client Application

Create the file **SMS.cs** and edit it to resemble the following:

```
namespace transentia
{
    using System;

    public class SMS
    {
        public static void Main(string [] args)
        {
            OTNMobileWrapper otnmw = new OTNMobileWrapper();
            Console.WriteLine("Using service version: " +
                              otnmw.getVersion());

            string otnUsername = args[0],
                  otnPassword = args[1];
            string [] senders = { args[2] },
                  recipients = { args[3] };
            string messageBody = args[4];

            string[] msgIds = otnmw.sendTextMsg(otnUsername,
                                                otnPassword,
                                                senders, recipients,
                                                messageBody);

            Console.Write("Sent message id(s): ");
            foreach(string m in msgIds)
                Console.Write(m + " ");
            Console.WriteLine();

            string [] statuses =
                otnmw.getStatusesByMsgIDs(otnUsername,
                                         otnPassword,
                                         msgIds);
            for(int i = 0; i < msgIds.Length; i++)
                Console.WriteLine("Status of {0}: {1}",
                                  msgIds[i], statuses[i]);
        }
    }
}
```

## Compilation

Very simple. Issue the following in your Command Prompt window:

```
C:\oronet> csc *.cs
```

## Execution Time!

Also very simple. Issue a command *resembling the following* in your Command Prompt window:

```
C:\oronet> SMS wilmaflintstone Wilma! email:fred@bedrock.com  
sms:+ 61411111111 "bring home some bronta-burgers"
```

You should use your personal/OTN details for the italicized items on the command line above. Note that an Australian mobile number 0411-111-111 should be given as +61411111111.

A short time after issuing the command, the destination device you designated on the command line should inform you of the arrival of a new SMS message.

## Wrapup

Oracle has published a number of other useful 'live' WebServices. You can find out more about them at <http://otn.oracle.com/tech/webservices/htdocs/live/content.html>.