HTTP SMS GATEWAY

User guide

ROUTO Messaging

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support@routotelecom.com

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Preface:

Please register for SMS or MMS account for testing our messaging services and integration to our SMS, MMS APIs. The following features and services are available:

- Straightforward, SMS API and MMS API integration:

  - Send and receive SMS using HTTP or SMPP
  - Send MMS using HTTP or SMPP

- Free sample code on how to send and receive SMS
- Free sample code on how to send MMS
- Status and the real time delivery reports of the messages you have sent
- Free Support, manned and around the clock 24/7 to answer any questions
- Minimal SMS and MMS development time
- Deploy with confidence; we have over ten years of experience in Mobile Messaging Integration

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1 Change History

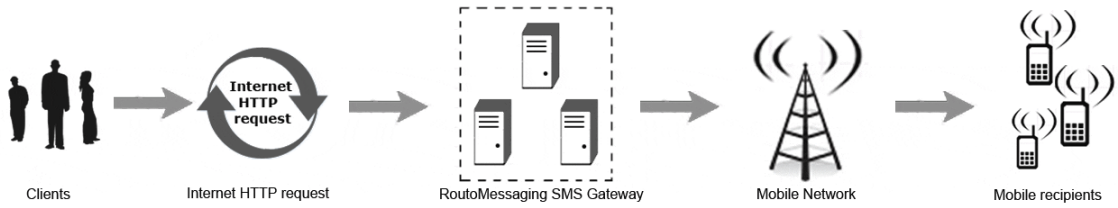
Date	Changes	Section
2008-02-09	Initial release	All
2008-02-25	Update	All
2009-03-23	Update	All
2009-04-01	Update	All
2009-08-12	Update	ASP Examples
2009-10-06	Update	Supported statuses
2010-05-04	Update	VB.NET Examples

Table 1: Change history

2 Introduction

This document contains detailed information about the methods for implementing RoutoMessaging services through HTTP protocol.

As the HTTP protocol can be implemented by using various programming languages, this document is designed both as a getting started guide and a reference document throughout your project.



For more details or examples not included in this user guide please contact us through email at support@routotelecom.com or live chat available at www.routomessaging.com.

RoutoMessaging provides the following two servers for sending messages through **HTTP** protocol:

- **smsc5.routotelecom.com**
- **smsc6.routotelecom.com**

A detailed description of the connection parameters is available in the document “Connecting to RoutoMessaging.pdf” at: http://www.routomessaging.com/http-sms.pmx

In order to send the SMS messages to the RoutoMessaging SMS Gateway the customer is required to have the following:

- an SMS account with RoutoMessaging
- available messaging credit on the SMS account with RoutoMessaging

Note: The servers are not limited to any platforms/languages. In this document we have provided typical examples for connecting to our SMS gateway and sending text messages using ASP, PHP, Perl and JAVA scripting languages in order to get you started.

3 Example of Sending messages using ASP

This section provides an explanation on how to send ASP programmed **RoutoTelecom.Sender** server object which is available for download as RoutoTelecom DLL source or RoutoTelecom DLL at: https://www.routomessaging.com/cust/

Since this is a server component, the customers will only be able to send SMS messages using ASP with RoutoTelecom.Sender server object registered on their servers.

3.1 Example of Sending SMS basics using ASP

The following snippet demonstrates sending SMS basics using ASP.

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.SMSType = "SMS"
Sms.Message = "Test Message"
' optional parameters
Sms.Owner = "4479987654321"
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 1: Example of Sending SMS basics using ASP

The SMS object is created in the first line of the code.

```
set Sms = Server.CreateObject("RoutoTelecom.Sender")
```

All other required properties are set in the subsequent lines of this example allowing the message to be sent.

Further available information:

- Parameters description is explained in section 9 (Appendix A)
- The SMS replies which the customer can receive from our SMS gateway are specified in section 11 (Appendix B)
- Detailed explanation of the delivery reports can be found in section 12 (Appendix C)

3.2 Sending SMS using form POST method ASP

This section will demonstrate sending an SMS message by using an HTML form. You need to create two files.

The first file is **index.html** which implements the HTML form the users will use to input the phone number and message.

The second file is the **sendsms.asp** script which sends your SMS using the RoutoMessaging component.

```
<html>
<body>
<form action='sendsms.asp' method='post'>
Number: <input type='text' name='number'><br>
Message: <input type='text' name='message'><br>
<input type='submit' value='Send SMS'>
</form>
</body>
</html>
```

Snippet 2: Index.html

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting login parameters
Sms.Username = "your_username"
Sms.Password = "your password"
Sms.Owner = "Routo"
Sms.SMSType = "SMS"
' get values from FORM for number and message
Sms.MobileNo = Request("number")
Sms.Message = Request("message")
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 3: sendsms.asp

3.3 Sending Long SMS using ASP

The following snippet demonstrates sending of Long SMS by using ASP.

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.SMSType = "LongSMS"
Sms.Message = "Test Message"
' optional parameters
Sms.Owner = "4479987654321"
' sending SMS and printing result
```

```
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%
```

Snippet 4: Sending Long SMS using ASP

Specify long SMS message by setting the **SMSType** property to **LongSMS**. The length of the single SMS message is 160 characters. A long SMS message is considered to be message longer than 160 characters.

In case of a long SMS message, our system will automatically divide it into several single messages. The divided messages then will be sent and delivered to the recipient's phone as a single SMS.

3.4 Sending Unicode SMS using ASP

The following snippet demonstrates sending Unicode SMS by using ASP.

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.SMSType = "unicode"
Sms.Message =
"04220432043E04580435002004370435043B0435043D04350020043E044704
380020044104430020043C04380020043F0430043C043504420020043F043E
043C044304420438043B0435002E002E002E"
' optional parameters
Sms.Owner = "4479987654321"
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 5: Sending Unicode SMS using ASP

Specify the unicode SMS message type by setting the **SMSType** property to **unicode**. In case of Unicode type, the message will be 70 characters long and 2 bytes will be allocated for each character.

3.5 Sending Long Unicode SMS using ASP

The following snippet demonstrates sending of the Long Unicode SMS by using ASP.

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.SMSType = "longunicode"
Sms.Message =
"04220432043E04580435002004370435043B0435043D04350020043E04
4704380020044104430020043C04380020043F0430043C0435044200200
43F043E043C044304420438043B0435002E002E002E"
' optional parameters
Sms.Owner = "4479987654321"
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 6: Sending Long Unicode SMS using ASP

Specify the long unicode SMS message type by setting the **SMSType** property to **longunicode**. Long Unicode SMS message is a message consisting of over 70 characters.

In case of a long Unicode SMS, one message will be divided into several messages (70 characters per message) and delivered to the recipient's phone as a single unicode SMS. TheLong unicode SMS message can consist of a maximum of 4 parts/messages.

3.6 Sending operator logo using ASP

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- **dimensions:**
  - **width**: 72 pixels
  - **height**: 14 pixels
- **format**: grayscale GIF

Below is the operator logo ASP Example:

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' read Gif file and puts it into MIME encoded string
GifContent =
Sms.GetFileMIMEEncoded("C:\InetPub\wwwroot\Routo\sms\lovema
chine.gif")
' setting parameters
Sms.Username = "username"
Sms.Password = "password"
Sms.MobileNo = "4479987654321"
Sms.Owner = "4479987654321"
Sms.Operator = "0263"
Sms.SMSType = "OperatorLogo"
Sms.Message = GifContent
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 7: Sending operator logo using ASP

As you may see, the MIME encode is required for the GIF image. You can use the GetFileMIMEEncoded method of the SMS object, or a third party component.

The operator code needs to be specified, by using the Operator property. In addition, you should specify **SMSType** as **OperatorLogo**.

For full list of Operator Codes please contact our support team: live 24/7 on our Web Site or Email at support@routotelecom.com

3.7 Sending ring tone using ASP

The RoutoMessaging SMS service allows you to send ring tones in the RTTTL format, which can be sent to all supported mobile phones. Below is the ASP example for the ring tone.

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.Owner = "4479987654321"
Sms.SMSType = "RingTone"
Sms.MobileModel = "nokia"
Sms.Message =
"Blue:d=4,o=5,b=120:8c6,8e,8a,8c6,8d6,8g,8b,c6,8a,
8c6,8e6,f6,8e6,8d6,c6,8a,8c6,8b,8e,8g,8a,2p,b"
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 8: Sending ring tone using ASP

You can specify the manufacturer of the recipient phone by setting the **MobileModel** property. The **SMSType** property should be set as **RingTone**.

3.8 Sending WAP bookmark using ASP

To send a **WAP bookmark** you need to set the message type parameter to **bookmark** and format the message as follows:

Bookmark name\r\nURL

Below is the WAP boomark ASP example:

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.Owner = "44791232321"
Sms.SMSType = "bookmark"
Sms.Message="Routo Telecom\r\nhttp://www.routotelecom.com"
' sending SMS and printing result
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 9: Sending WAP bookmark using ASP

4 Example of Sending messages ASP.net and C# class

This section of the document will describe sending SMS by using the ASP.net and C# class.

4.1 Sending SMS basics using ASP.NET and C# class

This section will describe sending SMS basics using ASP.NET and C# class. Below is the snippet with a simple ASP.NET example.

```
protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        string message = Request.QueryString["message"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetOwnNumber("44792838383838");
        routo.SetType("SMS");
        routo.SetMessage(message);
        string header = routo.Send();
        sms.InnerText = header;
    }
```

Snippet 10: Sending SMS basics using ASP.NET and C# class

The first step is taking the number and the message from the **index.aspx** page. The second step is creating routo object from the RoutoSMSTelecom class.

After these two initial steps all other required properties should be set allowing the message to be sent. This is done by using the following RoutoMessaging SMS methods:

method	Description	type
SetUser(value)	Username	mandatory
SetPass(value)	Password	mandatory
SetNumber(value)	number to which the message will be sent	mandatory
SetOwnNum(value)	number that will appear in message header on the recipient's mobile device	optional
SetMessage(value)	message body	mandatory
SetType(value)	type of message to send. Set to **SMS** by default	optional
SetOp(value)	mobile operator code	mandatory for operator logos only
SetModel(value)	used when sending 8-bit messages to specify the manufacturer of the recipient's phone. Set to **nokia** by default	optional

Table 2: RoutoMessaging SMS methods

Further available information

- Parameters description is explained in section 8 (Appendix A)
- The SMS replies which the customer can receive from our SMS gateway are specified in section 11 (Appendix B)
- Detailed explanation of the delivery reports can be found in section 12 (Appendix C)

4.2 Sending an SMS using a form on an aspx page

This example will demonstrate how you can send an SMS message which is entered in an HTML form. You will need to create two files.

The first one is index.aspx which implements the HTML form for where the users will input the destination phone number and the message.

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="index.aspx.cs" Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Routo</title>
</head>
<body>
    <form id="form1" runat="server">
    <div>

        Number:   
        <asp:TextBox ID="txtNumber" runat="server"></asp:TextBox>
        <br />
        Message:            <asp:TextBox ID="txtMessage"
runat="server"></asp:TextBox>
        <br />
        <br />
        <asp:Button ID="Button1" runat="server"
onclick="Button1_Click" Text="Send" />
        </div>
    </form>
</body>
</html>
```

Snippet 11: index.aspx

Once the button is clicked, this page executes the following code in **index.aspx.cs**.

```
protected void Button1_Click(object sender, EventArgs e)
    {
              Response.Redirect("sendsms.aspx?number=" +
      txtNumber.Text + "&message=" + txtMessage.Text);
    }
```

Snippet 12: Example of the code which is sent

The demonstrated code will send the number and the message to **sendsms.aspx**. The second file is the **aspx** script which sends your SMS using the RoutoMessaging component.

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="sendsms.aspx.cs" Inherits="sendsms" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
    <title>Routo</title>
</head>
<body>
    <form id="form1" runat="server">
    <div id="sms" runat="server">
        </div>
    </form>
</body>
</html
```

Snippet 13: sendsms.aspx

The C# code for this page is in the **sendsms.aspx.cs** file.

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        string message = Request.QueryString["message"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username ");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetOwnNumber("44792838383838");
        routo.SetType("SMS");
        routo.SetMessage(message);
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 14: sendsms.aspx.cs

4.3 Sending Long SMS using form on aspx page

The example in this section will demonstrate how you can send a Long SMS message which is entered in a HTML form. You will need to create two files.

The first one is **index.aspx** which implements the HTML form where the users will input the destination phone number and message.

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="index.aspx.cs" Inherits="_Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Routo</title>
</head>
<body>
    <form id="form1" runat="server">
    <div>
            Number:   
        <asp:TextBox ID="txtNumber"
runat="server"></asp:TextBox>
        <br />
        Message:           <asp:TextBox
ID="txtMessage" runat="server"></asp:TextBox>
        <br />
```

```
        <br />
        <asp:Button ID="Button1" runat="server"
onclick="Button1_Click" Text="Send" />
    </div>
    </form>
</body>
</html>
```

Snippet 15: index.aspx

Once the button for sending the message is clicked, the following code in **index.aspx.cs** will be executed.

```
protected void Button1_Click(object sender, EventArgs e)
    {
              Response.Redirect("sendsms.aspx?number=" +
      txtNumber.Text + "&message=" + txtMessage.Text);
    }
```

Snippet 16: Example of the executed code

This code sends the number and the message to the **sendsms.aspx.** The second file is the **aspx** script which sends your Long SMS using the RoutoMessaging component.

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeFile="sendsms.aspx.cs" Inherits="sendsms" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Routo</title>
</head>
<body>
    <form id="form1" runat="server">
    <div id="sms" runat="server">
    </div>
    </form>
</body>
</html>
```

Snippet 17: the aspx file

The C# code for this page is located in the **sendsms.aspx.cs** file.

```
protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        string message = Request.QueryString["message"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetOwnNumber("44792838383838");
        routo.SetType("LongSMS");
        routo.SetMessage(message);
        string header = routo.Send();
        sms.InnerText = header;
    }
```

Snippet 18: sendsms.aspx.cs file

Specify the long SMS message by setting the **Type** property to LongSMS. The length of the single SMS message is 160 characters so any message longer than 160 characters is considered as long message.

In case of a long SMS message, our system will automatically divide the message to several single messages. The divided messages will then be sent to the recipient and delivered as a single SMS.

4.4 Sending Unicode SMS using C#

The example below demonstrates how you can send Unicode messages. You will need to create such file which is the **class** that sends the unicode message using the RoutoMessaging component.

Here we can see the Unicode SMS C# example:

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber(number);
        routo.SetOwnNumber("44792838383838");
        routo.SetType("unicode");

routo.SetMessage("04220432043E04580435002004370435043B0435043D04
350020043E0447043800200441043000200043C04380020043F0430043C043504
420020043F043E043C044304420438043B0435002E002E002E");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 19: sendsms.aspx.cs

Specify the Unicode SMS message by setting the **Type** property to “unicode”. The Unicode message is 70 characters long and 2 bytes are allocated for each character.

4.5 Sending a Long Unicode SMS using C#

This example will demonstrate how you can send the Long Unicode messages. You need to create file like the example presented below.

This is the **class** which sends long unicode message using the RoutoMessaging component

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber(number);
        routo.SetOwnNumber("44792838383838");
        routo.SetType("longunicode");
        routo.SetMessage("04220432043E045804350020043704350 43B0435
043D04350020043E044704380020044104430020043C04380020043F0430043C04
3504420020043F043E043C044304420438043B0435002E002E002E");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 20: sendsms.aspx.cs

Specify the Long Unicode SMS message by setting the **Type** property to longunicode. A Long Unicode SMS message is a message with the length of over 70 characters.

In case of a long Unicode type, one SMS message is divided into several messages (70 characters per message) and delivered to the recipient's phone as a single unicode SMS.

Note: the Long unicode SMS message can consist of maximum 4 parts/messages.

4.6 Sending operator logo using C#

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- **dimensions:**
  - **width**: 72 pixels
  - **height**: 14 pixels
- **format**: grayscale GIF

Below is the operator logo C# Example:

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        string message =
routo.getImage("http://www.domain.com/some_logo.gif");
        routo.SetUser("your_username");
        routo.SetPass("your_password ");
        routo.SetNumber("44791212121212");
        routo.SetOwnNumber("44792838383838");
```

```
        routo.SetOp("0263");
        routo.SetType("OperatorLogo");
        routo.SetMessage(message);
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 21: Operator logo C# Example

It is required that you specify the operator code for the network, by using SetOp, as well as set the type to Operator Logo.

```
routo.SetOp("0263");
routo.SetType("OperatorLogo");
```

4.7 Sending ring tones using C#

The RoutoMessaging SMS service allows you to send ring tones in the RTTTL format which can be sent to all supported mobile phones. Below is the C# example for the ring tone.

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string number = Request.QueryString["number"];
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password ");
        routo.SetNumber("44791212121212");
        routo.SetOwnNumber("44792838383838");
        routo.SetType("RingTone");
        routo.SetModel("nokia");

routo.SetMessage("Blue:d=4,o=5,b=120:8c6,8e,8a,8c6,8d6,8g,8b,c6,
8a,8c6,8e6,f6,8e6,8d6,c6,8a,8c6,8b,8e,8g,8a,2p,b");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 22: C# example for the ring tone

Specify the make/manufacturer of the target phone by using the **SetModel()** method. In addition, you need to specify Ring Tone as the message type.

```
routo.SetType("RingTone");
routo.SetModel("nokia");
```

4.8 Sending vCard using C#

In order to send **vCards** you need to use the correct SMS type (vCard) and the following message format:

```
N:<name>\r\nTEL:<phonenumber>
```

Below is the C# vCard example:

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
```

```
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetType("vCard");
        routo.SetMessage("N:John Smith\r\nTEL:+44783783923");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 23: C# vCard example

4.9 Sending vCalendar using C#

In order to send a **vCalendar** you need to use the correct SMS type (vCalendar) and the following message format:

`DESCRIPTION:<description>\r\nDTSTART:<start date>\r\nDTEND:<end date>`

The start date and end date have to be in the following format:

`yyyymmddThhmmss`

Below is the C# vCalendar example.

```
public partial class sendsms : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetType("vCalendar");
        routo.SetMessage("DESCRIPTION:Call

Jeff\r\nDTSTART:20011215T130000\r\nDTEND:20011215T133000");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 24: C# vCalendar example

4.10 Sending WAP bookmark using C#

In order to send a **WAP bookmark** you need to set message type to **bookmark** and use the following format for the message:

```
Bookmark name\r\nURL
```

Below is the C# WAP bookmark example:

```
public partial class sendsms : System.Web.UI.Page
{

 protected void Page_Load(object sender, EventArgs e)
    {
        RoutoSMSTelecom routo = new RoutoSMSTelecom();
        routo.SetUser("your_username");
        routo.SetPass("your_password");
        routo.SetNumber("44791212121212");
        routo.SetType("bookmark");
        routo.SetMessage("Routo
Telecom\r\nhttp://www.routotelecom.com");
        string header = routo.Send();
        sms.InnerText = header;
    }
}
```

Snippet 25: C# WAP bookmark example

5 Example of Sending messages using Perl

This section of the document will describe sending text messages by using the Perl programming language.

5.1 Sending SMS basics using Perl

In order to send an SMS to RoutoMessaging SMS gateway, you will need to make a GET or POST HTTP request.

There are several Perl modules which you can use – examples here will be given with **LWP::UserAgent used. LWP::UserAgent** which is a part of standard Perl distribution

Below is the the simple Perl example:

```
#!/usr/bin/perl
use strict;
use LWP::UserAgent;
my $username = 'your_username';
my $password = 'your_password';
my $number = '123456789';
my $ua = LWP::UserAgent->new;
$ua->timeout(10);
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
# see Appendix A for possible fields/values
number => $number,
user => $username,
pass => $password,
message => 'Test message'
}
);
if ($response->is_success) {
# see Appendix B for possible responses
print $response->decoded_content;
}
else {
die $response->status_line;
```

Snippet 26: Sending SMS basics using Perl

Further available information:

- Parameters description is explained in section 9 (Appendix A)
- The SMS replies which the customer can receive from our SMS gateway are specified in section 11 (Appendix B).
- Detailed explanation of the delivery reports can be found in section 12 (Appendix C).

5.2 Sending Long SMS using Perl

The snippet below demonstrates sending of the long SMS by using Perl.

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'LongSMS',
message => "Test message"
}
);
```

Snippet 27: Sending Long SMS using Perl

Specify the Long SMS message by setting the **type** property to **LongSMS**. The length of the single SMS message is 160 characters, so any message longer than 160 characters will be considered a Long message.

In case of a Long SMS message, our system will automatically divide that message to several single messages. The divided messages then will be sent to the recipient and delivered as a single SMS.

5.3 Sending Unicode SMS using Perl

The snippet below demonstrates the method for sending a Unicode SMS by using Perl.

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'unicode',
message =>
"04220432043E04580435002004370435043B0435043D04350020043E04
4704380020044104430020043C04380020043F0430043C0435044200200
43F043E043C044304420438043B0435002E002E002E"
}
);
```

Snippet 28: Sending Unicode SMS using Perl

Specify unicode SMS message by setting the **type** property to **unicode**. In case of Unicode the message is 70 characters long and 2 bytes are allocated for each character.

5.4 Sending Long Unicode SMS using Perl

The example below demonstrates the method for sending long Unicode messages by using Perl.

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'longunicode',
message =>
"04220432043E04580435002004370435043B0435043D04350020043E04
4704380020044104430020043C04380020043F0430043C0435044200200
43F043E043C04430442043804B0435002E002E002E"
}
);
```

Snippet 29: Sending Long Unicode SMS using Perl

Specify long unicode SMS message by setting the **type** property to **longunicode**. A Long Unicode SMS message is a message with the length of over 70 characters.

In case of a long Unicode type, one SMS message is divided into several messages (70 characters per message) and delivered to the recipient's phone as a single unicode SMS.

Note: the Long unicode SMS message can consist of maximum 4 parts/messages.

5.5 Sending operator logo using Perl

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- **dimensions:**
  - **width**: 72 pixels
  - **height**: 14 pixels
- **format**: grayscale GIF

You need to specify the operator code for the network by using the **op** parameter as well as the message **type** which should be set to OperatorLogo.

For full list of Operator Codes please contact our support team: live 24/7 on our Web Site or email at support@routotelecom.com

Below is the operator logo Perl example:

```
open(F, "<".$ARGV[0]) or die($!);
while(<F>){
s/(.{1})/sprintf("%02X", ord($1))/ges;
$message .= $_;
}
close F;
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
```

```
type => 'OperatorLogo',
op => '0263',
message => $message
}
);
```

Snippet 30: Sending operator logo using Perl

5.6 Sending ring tone using Perl

The RoutoMessaging SMS service allows you to send ring tones in the RTTTL format which can be sent to all supported mobile phones.

Specify the make/manufacturer of the target phone by using the **model** parameter and set the type parameter to RingTone.

Below is the Perl example for the ring tone:

```
# Ring Tone in RTTTL format
$message =
"Blue:d=4,o=5,b=120:8c6,8e,8a,8c6,8d6,8g,8b,c6,8a,
8c6,8e6,f6,8e6,8d6,c6,8a,8c6,8b,8e,8g,8a,2p,b";
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'RingTone',
model => 'nokia',
message => $message
}
);
```

Snippet 31: Sending ring tone using Perl

5.7 Sending vCard using Perl

In order to send a **vCard** entry, you should to use the corresponding SMS type (vCard) and the following message format:

```
N:<name>\nTEL:<phone number>
Example:
N:John Smith
TEL:+123456789
```

Below is the vCard Perl example:

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'vCard',
message => "N:John Smith\nTEL:+123456789"
}
);
```

Snippet 32: Sending vCard using Perl

5.8 Sending vCalendar using Perl

In order to send a **vCalendar** entry, you need to use the corresponding SMS type (vCalendar) and the following message format:

```
DESCRIPTION:<description>\nDTSTART:<start date>\nDTEND:<end date>
Start date and end date have to be in this format:
yyyymmddThhmmss
Example:
DESCRIPTION:Call John
DTSTART:20011215T130000
DTEND:20011215T133000
```

Below is the vCalendar Perl example:

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'vCalendar',
message => "DESCRIPTION:Something
Happening\nDTSTART:20090323T150000\nDTEND:20090323T163000"
}
);
```

Snippet 33: Sending vCalendar using Perl

5.9 Sending messages (full example) using Perl

The following are the **html page** and **perl script** which you can use to send SMS messages, operator logos or ring tones.

```
<html>
<head>
<title>SMS demo</title>
<style>
<!--
p { font-family: Verdana, Arial, Helvetica, sans-serif;
font-size: 10pt;
color: black
}
h1 { font-family: Verdana, Arial, Helvetica, sans-serif;
font-size: 14pt;
font-style: bold;
color: black
}
//-->
</style>
</head>
<body bgcolor="#ffffff">
<h1>Send SMS</h1>
<form action="/cgi-bin/testSMS.cgi" method="POST">
<table border="0">
<tr>
<td width="150"><p>Number:</p></td><td><input
type="text" name="number"></td>
</tr>
```

```
<tr>
<td width="150"><p>Message:</p></td><td><input
type="text" name="message" size="50" maxlength="150"></td>
</tr>
<tr>
<td width="150"><p>Own number:</p></td><td><input
type="text" name="ownnum"></td></tr>
<tr>
<td></td>
<td><input type="submit" value="Send"></td>
</tr>
</table>
</form>
<h1>Send operator logo</h1>
<form action="/cgi-bin/testSMS.cgi" method="POST"
ENCTYPE="multipart/form-data">
<input type="hidden" name="type" value="OperatorLogo">
<table border="0">
<tr>
<td width="150"><p>Number:</p></td><td><input
type="text" name="number"></td>
</tr>
<tr>
<td width="150"><p>Logo (GIF
format):</p></td><td><input type="file"
name="message"></td>
</tr>
<tr>
</tr>
<tr>
<td></td>
<td><input type="submit" value="Send"></td>
</tr>
</table>
</form>
<h1>Send ring tone</h1>
<form action="/cgi-bin/testSMS.cgi" method="POST">
<input type="hidden" name="type" value="RingTone">
<table border="0">
<tr>
<td width="150"><p>Number:</p></td><td><input
type="text" name="number"></td>
</tr>
<tr>
<td width="150"><p>Ring tone:</p></td><td><input
type="text" name="message" size="50"><br/>
<small>Ring Tone in RTTTL format</small>
</td>
</tr>
<tr>
<td width="150"></td><td><input type="submit"
value="Send"></td>
</tr>
</table>
</form>
</body>
</html>
```

Snippet 34: sms.html

```
#!/usr/bin/perl
use strict;
use CGI;
use LWP::UserAgent;
my $query = CGI->new();
print $query->header();
my $form = $query->Vars();
my $username = 'your_username';
my $password = 'your_password';
my $number = '132465798';
my $ua = LWP::UserAgent->new;
$ua->timeout(10);
my $message_data = {
number => $number,
user => $username,
pass => $password,
};
if($form->{type} eq 'OperatorLogo'){
# OperatorLogo
$message_data->{type} = 'mms-gif';
use MIME::Base64;
# get image from file
my $fh=$query->upload('message');
my $logo="";
while(<$fh>){
$logo.=$_;
}
# MIME encode image
$logo=encode_base64($logo);
$message_data->{message} = $logo;
} elsif($form->{type} eq 'RingTone') {
# RingTone
$message_data->{type} = 'RingTone';
$message_data->{message} = $form->{message};
} else {
# Ordinary message
$message_data->{message} = $form->{message};
}
if( length($form->{ownnum}) ){
if ($form->{ownnum} =~ /\D/){
print "Own number you entered is not an number.";
die "Own number you entered is not an number.";
} else {
$message_data->{ownnum} = $form->{ownnum};
}
}
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
$message_data
);
if ($response->is_success) {
print $response->decoded_content; # or whatever
}
else {
die $response->status_line;
}
```

Snippet 35: testSMS.cgi

5.10 Sending WAP bookmark using Perl

In order to send a **WAP bookmark** you should set the message type to **bookmark** and format the message as follows:

`Bookmark name\nURL`

Below is the Perl example for WAP bookmark.

```
my $response = $ua->post(
'http://smsc5.routotelecom.com/SMSsend',
{
number => $number,
user => $username,
pass => $password,
type => 'bookmark',
message => "Google\nhttp://www.google.com"
}
);
```

Snippet 36: Sending WAP bookmark using Perl

6 Example of Sending messages using PHP

This section of the document will explain how to send messages by using **PHP** i.e. RoutoTelecomSMS PHP class.

6.1 Sending SMS basics using PHP

The following snippet demonstrates a simple PHP example.

```
<?php
// include RoutoSMS class
include("RoutoTelecomSMS.php");
// creating object
$sms = new RoutoTelecomSMS;
// setting SMS parameters
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("44791212121212");
$sms->SetOwnNum("44792838383838"); // optional
$sms->SetType("FlashSMS"); // optional
$sms->SetMessage("message");
// send SMS and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 37: Sending SMS basics using PHP

As demonstrated in the snippet above, the first line is used to include the **RoutoTelecomSMS.php** file, adding the RoutoMessaging SMS class source code into our script.

```
include("RoutoTelecomSMS.php");
```

The next step is creating an instance of that class:

```
$sms = new RoutoTelecomSMS;
```

After that the required properties for sending the messages should be set. We can do this by using the following RoutoMessaging SMS methods:

method	Description	Type
SetUser(value)	Username	mandatory
SetPass(value)	Password	mandatory
SetNumber(value)	number to which the message will be sent	mandatory
SetOwnNum(value)	number that will appear in message header on the recipient's mobile device	optional
SetMessage(value)	message body	mandatory
SetType(value)	type of message to send. Set to **SMS** by default	Optional
SetOp(value)	mobile operator code	mandatory for operator logos only
SetModel(value)	used when sending 8-bit messages to specify the manufacturer of the recipient's phone. Set to **nokia** by default	Optional

Table 3: RoutoMessaging SMS methods

Further available information:

- Parameters description is explained in section 9 (Appendix A)
- The SMS replies which the customer can receive from our SMS gateway are specified in section 11 (Appendix B).
- Detailed explanation of the delivery reports can be found in section 12 (Appendix C)

6.2 Sending SMS using form POST method PHP

This example demonstrates how you can send an SMS message entered in a HTML form. You will need to create two files.

The first one is **index.html** which implements the HTML form for users to input the phone number and message.

```
<html>
<body>
<form action='sendsms.php' method='post'>
Number: <input type='text' name='number'><br>
Message: <input type='text' name='message'><br>
<input type='submit' value='Send SMS'>
</form>
</body>
</html>
```

Snippet 38: index.html

The second file is the **script** that sends your SMS using the RoutoMessaging component.

```
<?php
// include RoutoSMS class
include("RoutoTelecomSMS.php");
// creating object
$sms = new RoutoTelecomSMS;
```

```
// setting login parameters
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetOwnNum("44792838383838"); // optional
$sms->SetType("SMS"); // optional
// get values entered from FORM
$number = $_REQUEST['number'];
$message = $_REQUEST['message'];
$sms->SetNumber($number);
$sms->SetMessage($message);
// send SMS and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 39: sendsms.php

6.3 Sending Long SMS using form POST method PHP

This example demonstrates how you can send Long SMS message entered in a HTML form. You need to create two files.

The first one is **index.html** which implements the HTML form for users to input the phone number and message.

```
<html>
<body>
<form action='sendsms.php' method='post'>
Number: <input type='text' name='number'><br>
Message: <input type='text' name='message'><br>
<input type='submit' value='Send SMS'>
</form>
</body>
</html>
```

Snippet 40: index.html

The second file is the **script** that sends your Long SMS using the Routo Messaging component.

```
<?php
// include RoutoSMS class
include("RoutoTelecomSMS.php");
// creating object
$sms = new RoutoTelecomSMS;
// setting login parameters
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetOwnNum("44792838383838");
$sms->SetType("LongSMS");
// get values entered from FORM
$sms->SetNumber($number);
$sms->SetMessage($message);
// send SMS and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 41: sendsms.php

Specify long SMS message by setting the **Type** property to **LongSMS**. The length of the single SMS message is 160 characters. Any message longer than 160 characters is considered a long message.

In case of a long SMS message, our system will automatically divide the message to several single messages. The divided messages will then be sent to the recipient and delivered phone as a single SMS.

6.4 Sending Unicode SMS using PHP

This example demonstrates how you can send Unicode messages. You need to create file like the example presented below. This is the **script** that sends unicode message using the RoutoMessaging component.

Here we can see the Unicode SMS PHP example:

sendsms.php:

```
<?php
// include RoutoSMS class
include("RoutoTelecomSMS.php");
// creating object
$sms = new RoutoTelecomSMS;
// setting login parameters
$sms->SetUssms->SetOwnNum("44792838383838");
$sms->SetType("unicode");
// get values entered from FORM
$sms->SetNumber($number);
$message="04220432043E04580435002004370435043B0435043D04350020043E0
44704380020044104430020043C04380020043F0430043C043504420020043F043E
043C044304420438043B0435002E002E002E";
$sms->SetMessage($message);
// send SMS and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 42: sendsms.php

Specify Unicode SMS message by setting the **Type** property to **unicode**. In case of Unicode message, it is 70 characters long and 2 bytes are allocated for each character.

6.5 Sending Long Unicode SMS using PHP

This example demonstrates the method for sending Unicode messages. It is necessary that you create a file like the example below.

This is the **script** that sends unicode message using the RoutoMessaging component. Below is the Unicode SMS PHP example.

```
<?php
// include RoutoSMS class
include("RoutoTelecomSMS.php");
// creating object
$sms = new RoutoTelecomSMS;
// setting login parameters
$sms->SetUser("your_username");
$sms->SetPass("your_password");
```

```
$sms->SetOwnNum("44792838383838");
$sms->SetType("longunicode");
// get values entered from FORM
$sms->SetNumber($number);
$message="04220432043E04580435002004370435043B0435043D04350
020043E044704380020044104430020043C04380020043F0430043C0435
04420020043F043E043C044304420438043B0435002E002E002E";
$sms->SetMessage($message);
// send SMS and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 43: Sending Long Unicode SMS using PHP

Specify the long unicode SMS message by setting the **Type** property to **longunicode**. Long Unicode SMS message is a message with the length of over 70 characters.

In case of a long unicode SMS, the message is divided into several messages (70 characters per message) and delivered to the recipient's phone as a single unicode SMS. Long unicode SMS message can consist of maximum 4 parts/messages.

6.6 Sending operator logo using PHP

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- **dimensions:**
  - **width**: 72 pixels
  - **height**: 14 pixels
- **format**: grayscale GIF

Below is the operator logo PHP Example:

```
<?php
// URL of 72x14 GIF representing logo to be sent
$imgurl = "http://www.domain.com/some_logo.gif";
// reads GIF using standard PHP file system functions
$gifFile = fopen( $imgurl, "r" );
if (!$gifFile) exit;
$gifContent = "";
while ( !feof($gifFile) ) {
$gifContent .= fread( $gifFile, 1024 );
}
fclose( $gifFile );
// MIME encode GIF data
$message = base64_encode($gifContent);
// including RoutoSMS class and seting parameters
include("RoutoTelecomSMS.php");
$sms = new RoutoTelecomSMS;
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("4479987654321");
$sms->SetOwnNum("447921312323");
$sms->SetOp("0263");
$sms->SetType("OperatorLogo");
$sms->SetMessage($message);
// send message and print result
```

```
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 44: Sending operator logo using PHP

As you can see in the snippet above, you need to **MIME encode** the GIF using the **base64_encode()** PHP function before setting the message properly.

In addition, you need to specify the operator code for the network, by using the **SetOp** as well as **OperatorLogo** as the type.

```
$sms->SetType("OperatorLogo");
$sms->SetOp("0263");
```

6.7 Sending ring tones using PHP

The RoutoMessaging SMS service allows you to send ring tones in the RTTTL format which can be sent to all supported mobile phones. Below is the PHP example for the ring tone.

```
<?php
// Ring Tone in RTTTL format
$message =
"Blue:d=4,o=5,b=120:8c6,8e,8a,8c6,8d6,8g,8b,c6,8a,
8c6,8e6,f6,8e6,8d6,c6,8a,8c6,8b,8e,8g,8a,2p,b";
// including RoutoSMS class and seting parameters
include("RoutoTelecomSMS.php");
$sms = new RoutoTelecomSMS;
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("44791212121323");
$sms->SetOwnNum("44792727272722");
$sms->SetType("RingTone");
$sms->SetModel("nokia");
$sms->SetMessage($message);
// send message and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 45: Sending ring tones using PHP

Use the **SetModel()** method to specify the make/manufacturer of the target phone. In addition you should specify Ringtone as the SMS type.

```
$sms->SetType("RingTone");
$sms->SetModel("ericsson");
```

6.8 Sending vCard using PHP

In order to send a **vCard** you need to use the correct SMS type (vCard) and the following message format:

```
N:<name>\r\nTEL:<phonenumber>
```

Below is the vCard PHP example.

```
<?php
// including RoutoSMS class and seting parameters
include("RoutoTelecomSMS.php");
$sms = new RoutoTelecomSMS;
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("44792727272722");
$sms->SetType("vCard");
$sms->SetMessage("N:John Smith\r\nTEL:+44783783923");
// send message and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 46: Sending vCard using PHP

6.9 Sending vCalendar using PHP

In order to send a **vCalendar** you need to use the correct SMS type (vCalendar) and the following message format:

```
DESCRIPTION:<description>\r\nDTSTART:<start date>\r\nDTEND:<end date>
Start date and end date have to be in this format:
yyyymmddThhmmss
```

Below is the vCalendar PHP example:

```
<?php
// including RoutoSMS class and setting parameters
include("RoutoTelecomSMS.php");
$sms = new RoutoTelecomSMS;
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("44792727272722");
$sms->SetType("vCalendar");
$sms->SetMessage("DESCRIPTION:Call
Jeff\r\nDTSTART:20011215T130000\r\nDTEND:20011215T133000");
// send message and print result
$smsresult = $sms->Send();
print $smsresult;
?>
```

Snippet 47: Sending vCalendar using PHP

6.10 Sending WAP bookmark using PHP

In order to send a **WAP bookmark** you will need to set the message type to **bookmark** and format the message as follows:

```
Bookmark name\r\nURL
```

Below is the WAP boomark PHP example.

```
<?php
include("RoutoTelecomSMS.php");
$sms = new RoutoTelecomSMS;
$sms->SetUser("your_username");
$sms->SetPass("your_password");
$sms->SetNumber("44792727272722");
$sms->SetType("bookmark");
$sms->SetMessage("Routo
Telecom\r\nhttp://www.routotelecom.com");
// send message and print result
$smsresult = $sms->Send();
print $smsresult;
```

Snippet 48: WAP boomark PHP example

7 Example of sending SMS using Java

This section of the document will give examples for sending the SMS using Java.

7.1 Sending SMS basics using Java and jsp page

The following snippet demonstrates a simple Java example on .jsp page:

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%><!--creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber("44791212121212");%>
<% routo.SetOwnNumber("44792838383838");%><!—optional-->
<% routo.SetType("SMS");%><!—optional-->
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
</body>
</html>
```

Snippet 43: Sending SMS basics using Java and jsp page

In the first jsp line, we included the RoutoTelecomSMS class source code into our script.

`<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />`

Next, we have to create an instance of that class:

`<% routosms.RoutoTelecomSMS routo = new routosms.RoutoTelecomSMS();%>`

After that we have to set the required properties, allowing the message to be sent. We can do this by using the following RoutoMessaging SMS methods:

Method	description	Type
SetUser(value)	username	mandatory
SetPass(value)	password	mandatory
SetNumber(value)	number to which the message will be sent	mandatory
SetOwnNum(value)	number that will appear in message header on the recipient's mobile device	optional
SetMessage(value)	message body	mandatory

SetType(value)	type of message to send. Set to **SMS** by default	optional
SetOp(value)	mobile operator code	mandatory for operator logos only

Table 4: RoutoMessaging SMS methods

Further available information:

- Parameters description is explained in section 9 (Appendix A)
- The SMS replies which the customer can receive from our SMS gateway are specified in section 11 (Appendix B)
- Detailed explanation of the delivery reports can be found in section 12 (Appendix C)

7.2 Sending SMS using form POST method

This example demonstrates how you can send SMS message entered in a HTML form. You need to create two files. The first one is **index.html** which implements the HTML form for users to input the phone number and message.

```
<html>
<body>
<form action="sendsms.jsp" method='post'>
Number: <input type='text' name='number'><br>
Message: <input type='text' name='message'><br>
<input type='submit' value='Send SMS'>
</form>
</body>
</html>
```

Snippet 44: Index html file

The second file is the **script** that sends your SMS using the RoutoMessaging component.

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- get values entered from FORM>
<% String number = request.getParameter("number"); %>
<% String message = request.getParameter("message"); %>
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetOwnNumber("44792838383838");%>  <!--optional-->
<% routo.SetType("SMS");%> <!--optional-->
<% routo.SetNumber(number);%>
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
```

```
  </body>
</html>
```
Snippet 45: sendsms.jsp

7.3 Sending Long SMS using form POST method

This example demonstrates how you can send Long SMS message entered in a HTML form. You need to create two files.

The first one is **index.html** which implements the HTML form for users to input the phone number and message.

```
<html>
<body>
<form action="sendsms.jsp" method='post'>
Number: <input type='text' name='number'><br>
Message: <input type='text' name='message'><br>
<input type='submit' value='Send SMS'>
</form>
</body>
</html>
```
Snippet 46: index.html

The second file is the **script** which sends your Long SMS using the Routo Messaging component.

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- get values entered from FORM-->
<% String number = request.getParameter("number"); %>
<% String message = request.getParameter("message"); %>
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetOwnNumber("44792838383838");%>  <!--optional-->
<% routo.SetType("LongSMS");%> <!--optional-->
<% routo.SetNumber(number);%>
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```
Snippet 47: sendsms.jsp

Specify long SMS message by setting the **Type** property to LongSMS. The length of the single SMS message is 160 characters so any message longer than 160 characters is considered a long message.

In case of a long SMS message, our system will automatically divide the message to several single messages. The divided messages will then be sent to the recipient and delivered as a single SMS.

7.4 Sending Unicode SMS using Java class

This example demonstrates the method for sending Unicode messages. It is necessary that you create a file like the example below. This is the **script** which sends a unicode message using the RoutoMessaging component.

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- get values entered from FORM-->
<% String number = request.getParameter("number"); %>
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber(number);%>
<% routo.SetOwnNumber("44792838383838");%>  <!--optional-->
<% routo.SetType("unicode");%> <!--ptional-->
<% String
message="04220432043E04580435002004370435043B0435043D04350020043E0
44
70438002004380020043F0430043C043504420020043F043E043C044304420438
043B0435002
E002E002E"; %>
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 48: Sending Unicode SMS using Java class

Specify the Unicode SMS message by setting the **Type** property to unicode. In case of Unicode the message is 70 characters long and 2 bytes are allocated for each character.

7.5 Sending Long Unicode SMS using Java class

This example demonstrates the method for sending long Unicode messages by using the Java class. It is necessary that you create a file like the example below.

This is the **script** that sends long unicode message using the RoutoMessaging component. Below is the Unicode SMS Java example.

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- get values entered from FORM-->
```

```
<% String number = request.getParameter("number"); %>
<!-- Setting SMS parameters-->
<% rutosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber(number);%>
<% routo.SetOwnNumber("44792838383838");%>  <!--optional-->
<% routo.SetType("longunicode");%> <!--optional>
<%                                                          String
message="04220432043E045804350020043704350435043B0435043D04350020043E
044704380020044104430020043C04380020043F0430043C043504420020043F04
3E043C0
44304420438043B0435002E002E002E"; %>
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 49: Sending Long Unicode SMS using Java class

Specify the long unicode SMS message by setting the **Type** property to longunicode. A long Unicode SMS message is a message with the length of over 70 characters.

In case of a long Unicode type, one SMS message is divided into several messages (70 characters per message) and delivered to the recipient's phone as a single unicode SMS.

Note: the Long unicode SMS message can consist of maximum 4 parts/messages.

7.6 Sending operator logo using Java class

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- **dimensions:**
  - **width**: 72 pixels
  - **height**: 14 pixels
- **format**: grayscale GIF

Below is the operator logo Java Example:

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% String message =
routo.getImage("http://www.domain.com/some_file.gif");%>
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber("4479987654321");%>
```

```
<% routo.SetOwnNumber("447921312323");%>  <!--optional-->
<% routo.SetOp("0263");%>
<% routo.SetType("OperatorLogo");%> <!--optional-->
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 50: Sending operator logo using Java class

It is required that you specify the operator code for the network, by using SetOp, as well as set the type to Operator Logo.

```
<% routo.SetOp("0263");%>
<% routo.SetType("OperatorLogo");%>
```

7.7 Sending ring tones using Java class

The RoutoMessaging SMS service allows you to send ring tones in the RTTTL format which can be sent to all supported mobile phones. Below is the Java example for the ring tone.

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<% String message =
"Blue:d=4,o=5,b=120:8c6,8e,8a,8c6,8d6,8g,8b,c6,8a,8c6,8e6,f6,8e6,8
d6,
c6,8a,8c6,8b,8e,8g,8a,2p,b";%>
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber("44792727272722");%>
<% routo.SetOwnNumber("44792727272722");%>
<% routo.SetType("RingTone");%>
<% routo.SetModel("nokia"); %>
<% routo.SetMessage(message);%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 51: Sending ring tones using Java class

It is required that you specify the make/manufacturer of the target phone by using the **SetModel()** method.

In addition, it is necessary that you specify that Ring Tone SMS needs to be sent.

```
<% routo.SetType("RingTone");%>
<% routo.SetModel("nokia"); %>
```

7.8 Sending vCard using Java

In order to send a **vCard** entry, you need to use the corresponding SMS type (vCard) and the following message format:

```
N:<name>\r\nTEL:<phonenumber>
```

Below is the vCard Java example:

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username ");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber("44792727272722");%>
<% routo.SetType("vCard");%>
<% routo.SetMessage("N:John Smith\r\nTEL:+44783783923");%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 52: Sending vCard using Java

7.9 Sending vCalendar using Java

In order to send a **vCalendar** entry, you need to use the corresponding SMS type (vCalendar) and the following message format:

```
DESCRIPTION:<description>\r\nDTSTART:<start date>\r\nDTEND:<end date>
```

Start date and end date have to be in this format:

yyyymmddThhmmss

Below is the vCalendar Java example:

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class>
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object-->
<% routo.SetUser("your_username");%>
```

```
<% routo.SetPass("your_password");%>
<% routo.SetNumber("44792727272722");%>
<% routo.SetType("vCalendar");%>
<%
routo.SetMessage("DESCRIPTION:CallJeff\r\nDTSTART:20011215T130000\
r\nDTEND:
20011215T133000");%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 53: Sending vCalendar using Java

7.10 Sending WAP bookmark using Java

In order to send a **WAP bookmark** you will need to set message type to **bookmark** and format the message as follows: **`Bookmark name\r\nURL`**

Below is the WAP boomark Java example:

```
<html>
  <head>
    <title>Routo</title>
  </head>
  <body>
    <h1>Routo Telecom</h1>
    <br/><br/>
<!-- Include Routo SMS class-->
<jsp:useBean id="sms" class="routosms.RoutoTelecomSMS" />
<!-- Setting SMS parameters-->
<% routosms.RoutoTelecomSMS routo = new
routosms.RoutoTelecomSMS();%>  <!-- creating object>
<% routo.SetUser("your_username");%>
<% routo.SetPass("your_password");%>
<% routo.SetNumber("44792727272722");%>
<% routo.SetType("bookmark");%>
<% routo.SetMessage("Routo
Telecom\r\nhttp://www.routotelecom.com");%>
<!-- Send SMS and print result-->
<%=routo.Send()%>
  </body>
</html>
```

Snippet 54: WAP boomark Java example

8 Example of Sending messages via VB.NET class

This section of the document will describe sending SMS by using the VB.NET class.

8.1 Sending SMS basics using VB.NET class

This section will describe sending SMS basics using VB.NET class. Below is the snippet with a simple VB.NET example.

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
Dim routosender As New RoutoSend
routosender.user = uname.Text
routosender.password = passwrd.Text
routosender.number = recip.Text
routosender.source = ssender.Text
routosender.message = mmesage.Text
routosender.send()
End Sub
```

Snippet 55: Sending SMS basics using VB.NET class

8.2 Sending an SMS using a Windows Form

This example will demonstrate how you can send an SMS message which is entered in a Windows form.

You'll need to have form with fields Username, Password, Recipient, Sender and Message.

```
Public Class Form1
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click

If Len(uname.Text) = 0 Then
MsgBox("Please enter username", MsgBoxStyle.OkOnly, "Error")
Return
End If

If Len(passwrd.Text) = 0 Then
MsgBox("Please enter password", MsgBoxStyle.OkOnly, "Error")
Return
End If

If Len(recip.Text) = 0 Then
MsgBox("Please enter recipient", MsgBoxStyle.OkOnly, "Error")

Return
End If

If Len(ssender.Text) = 0 Then
MsgBox("Please enter sender", MsgBoxStyle.OkOnly, "Error")

Return
End If

If Len(mmesage.Text) = 0 Then
```

```
MsgBox("Please enter sender", MsgBoxStyle.OkOnly, "Error")

Return
End If

Dim routosender As New RoutoSend
routosender.user = uname.Text
routosender.password = passwrd.Text
routosender.number = recip.Text
routosender.source = ssender.Text
routosender.message = mmesage.Text
routosender.send()

uname.Text = ""
passwrd.Text = ""
recip.Text = ""
ssender.Text = ""
mmesage.Text = ""

End Sub
```

Snippet 56: Form1.vb

On Click on “Send” button, function “send“ will be called, and message will be sent with parameters entered from the form.

8.3 Sending a Long Unicode SMS using VB.NET

To send some of those message types, you simply have to change type in send() function.

For example, instead of:

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" & password &
"&message=" & message & "&number=" & number & "&ownnum=" & source &
"&type=SMS"
```

Snippet 57: VB.NET SMS

You'll have to create http request with different type set in http string, example:

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" & password &
"&message=" & message & "&number=" & number & "&ownnum=" & source &
"&type=longunicode"
```

Snippet 58: VB.NET Long Unicode

Message should be in the following format:

"04220432043E0458043500200437043504 3B0435

043D04350020043E044704380020044104430020043C04380020043F0430043C04

3504420020043F043E043C044304420438043B0435002E002E002E”

8.4 Sending operator logo using VB.NET

The RoutoMessaging SMS service allows you to send operator logos. The following are the image requirements:

- Dimensions: -width 72 pixels
  -height 14 pixels
- Format:- grayscale GIF

Type of the http request should be Operator Logo, and parameter “op” should be sent:

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" &
password & "&message=" & message & "&number=" & number & "&ownnum=" &
source & "&type=OperatorLogo&op=0263"
```

Snippet 59: VB.NET Operator logo

8.5 Sending ring tones using VB.NET

The RoutoMessaging SMS service allows you to send the ring tones in the RTTTL format which can be sent to all supported mobile phones.

Type of the http request should be RingTone, and parameter “model” should be sent.

Below is the VB.NET example for the ring tone:

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" &
password & "&message=" & message & "&number=" & number & "&ownnum=" &
source & "&type=RingTone&model=nokia"
```

Snippet 60: VB.NET Ring Tones

8.6 Sending vCard using VB.NET

In order to send Vcards you need to use the correct SMS Type (VCard) and the following message format:

N:<name>\r\nTEL:<phonenumber>

Message should be in following format: “N:John Smith\r\nTEL:+44783783923”.

Type of the http request should be vCard, and parameter “model” should be sent:

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" &
password & "&message=" & message & "&number=" & number & "&ownnum=" &
source & "&type=vCard"
```

Snippet 61: VB.NET vCards

8.7 Sending vCalendar using VB.NET

In order to send a vCalendar you need to use the correct SMS type (vCalendar) and the following message format:

DESCRIPTION:<description>\r\nDTSTART:<start date>\r\nDTEND:<end date>

The start date and end date have to be in the following format:
yyyymmddThhmmss

Message should be in the following format:
“DESCRIPTION:CallJeff\r\nDTSTART:20011215T130000\r\nDTEND:200112151T133000”

Type of the http request should be vCalendar, and parameter “model” should be sent.

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" &
password & "&message=" & message & "&number=" & number & "&ownnum=" &
source & "&type=vCalendar"
```

Snippet 62: VB.NET vCalendar

8.8 Sending Wap Bookmark using VB.NET

In order to send a WAP bookmark you need to set message type to bookmark and use the following format for the message:

Bookmark name\r\nURL
Message should be in the following format:
“RoutoTelecom\r\nhttp://www.routotelecom.com”.

Type of the http request should be Wap Bookmark, and parameter “model” should be sent.

```
"http://smsc5.routotelecom.com/SMSsend?user=" & user & "&pass=" &
password & "&message=" & message & "&number=" & number & "&ownnum=" &
source & "&type=bookmark"
```

Snippet 63: VB.NET Wap Bookmark

9 RoutoTelecom ActiveX controls in MS.NET products

For software developers who develop software in .NET environment (C#, VB.NET, ASP.NET) there are associated DLLs which can be accessed over COM.

In addition, since the source code is available, it can also be accessed as a class because it is programmed as ActiveX in VB 6.0.

You can find an example of sending an SMS by using a class in the source file which can be downloaded from the developers section at RoutoMessaging site.

The class has the following properties:

- **UserName** – User name
- **Password** – Password
- **SMSType** – Message type

Parameter	Description
SMS	Plain text
FLASHSMS	Flash SMS
UNICODE	Unicode
RINGTONE	Ringtone
OPERATOR	Operator Logo
GROUP	Group Graphics
PICTURE	Picture Message

Table 4: Parameters description

- **Message** – message text
- **MobileNo** – mobile number destination
- **Owner** – alpha numeric source ID
- **MobileModel** – Mobile phone model
- **Operator** – the argument for sending operator's logo (ref. routotelecom user guide)
- **ProxyName** – Proxy setting
- **ProxyUserName** – Proxy setting
- **ProxyPassword** – Proxy setting

After setting the properties, the function send () should be called.

The following is the procedure for using the DLL:

1. Register the DLL on the system (regsvr32 routotelecom.dll)
2. While in Visual Studio environment within a created or opened project, follow these steps **Project->Add Reference**, then click the COM tab, select **Browse** and point to **RoutoTelecom.dll**
3. A basic example for sending one plain text message follows:

```
Dim sms As New RoutoTelecom.SenderClass()
sms.UserName = "username"
sms.Password = "password"
sms.Owner = "senderID"
sms.MobileNo = "receiverID"
sms.SMSType = "SMS"
sms.Message = "some_text"
sms.send()
```

Snippet 64: A simple example of sending the plain text sms by using the DLL

10 Appendix A: SMS parameter description

This appendix contains the description of SMS parameters.

Parameter	Description
user	the username: your RoutoMessaging client **username**
pass	the password: if the password contains special characters (space,#,$,+,%,=) it has to be **URL encoded**
number	the number the message should be sent to; it has to be in the international format without '+' or spaces. **e.g.** 441234567890. Multiple numbers are allowed, up to 10, **separated by comma**
ownnum	the **number from** the message appears to have been sent from; it can be **numeric of alphanumeric** (up to 11 characters)
message	the **message body**: • for operator logos or graphics, the body it has to be **MIME** and **URL encoded** • for MMS messages it has to be **HEX encoded**; for all other messages it has to be **URL encoded** • for **unicode** messages should be in **HEX encoded UTF-16 format**
type	**message type**: • **SMS** (default) • **LongSMS** (concatenated messages up to 39015 characters) • **FlashSMS** • **RingTone** • **OperatorLogo** • **PictureMessage** • **binary** • **unicode** • **longunicode** • **uni_flash** (unicode flash) • **bookmark** (WAP bookmark) • **mms-gif** • **mms-jpg** • **mms-jar** • **mms-wav** • **mmsNotification**
op	**Mobile Operator Code**. This parameter must be used when sending Operator Logos
model	The **manufacturer** of the recipient's phone. It can be: Nokia (default) or Ericsson. Set type to Ericsson for all EMS supporting phones. It must be set for RingTone and PictureMessage
delivery	**delivery report request**; it should be set to 1 for delivery report

mess_id	**message ID** – this is the message id used for the delivery report; it must be set if the delivery has been set to 1; it can be any string up to 32 characters

Table 5: Appendix A: SMS parameter description

11 Appendix B: Replies from our SMS Gateway

This appendix contains the description of all available replies from RoutoMessaging SMS Gateway for every message that has been sent through the HTTP protocol.

Reply	Description
success	sending successful
error	not all required parameters are present
auth_failed	incorrect username and/or password and/or not allowed IP address
wrong_number	the number contains non-numeric characters
not_allowed	you are not allowed to send to this number
too_many_numbers	sending to more than 10 numbers per request
no_message	either the required parameter 'message' is missing or message body is empty
too_long	message is too long
wrong_type	an incorrect message type was selected
wrong_message	vCalendar or VCard contains wrong message
wrong_format	the wrong message format was selected
bad_operator	wrong operator code
failed	internal error
sys_error	the system error
No Credits Left	user has no credits

Table 6: replies from RoutoMessaging SMS gateway

12 Appendix C: SMS handset delivery reports

This appendix contains information about the SMS handset delivery reports as well as instructions on the required settings prior to being able to use this functionality.

In order to be able to receive the delivery reports, you must first have a **script** prepared. The link to this script must be registered on our system and the registration is done through our Command Centre which is available at: https://www.routomessaging.com/cust/

When you are requesting the delivery report you have two choices: you can either send the message to one subscriber with a unique message ID or you can send the messages to more than one subscriber (numbers are separated with commas) with one message ID for whole bulk.

In both cases you will receive the delivery reports. Your script should expect the following 3 parameters:

- **mess_id** is message ID you sent with message
- **status** is final status of the message
- **number** is destination number to which message is sent (useful when you send bulk messages with one message ID)

status	Description
-2	System error
-1	No status
0	Delivered
1	Rejected: Message length is invalid
2	Subscriber absent
3	Device memory capacity exceeded
4	Equipment protocol error
5	Equipment not supported
6	Equipment not SM equipped
7	Unknown service centre
8	Service centre congestion
9	Undeliverable
10	Rejected: Invalid source address
11	Invalid destination address
12	Illegal subscriber
13	Teleservice not provisioned
14	Illegal equipment
15	Call barred
16	Facility not supported
17	Subscriber busy for SM
18	System failure
19	Message waiting, list full
20	Data missing
21	Unexpected data value
22	Resource limitation
23	Initiating release
24	Unknown alphabet
25	USSD busy
26	Duplicated invoke ID

27	No supported service
28	Mistyped parameter
29	Unexpected response from peer
30	Service completion failure
31	No response from peer
32	Invalid response received
34	Invalid destination
49	Message type not supported
50	Destination blocked for sending
51	Not enough money
52	No price
67	Invalid esm_class field data
69	Rejected by SMSC
72	Rejected: Invalid source address TON
73	Rejected: Invalid source address NPI
80	Rejected: Invalid destination address TON
81	Rejected: Invalid destination address NPI
88	Throttling error
97	Rejected: Invalid scheduled delivery time
100	Error sending message
247	Sent
248	Sent
249	Rejected
250	Accepted
251	Undeliverable
252	Deleted
253	Expired
254	Roaming level not supported
255	Unknown error

Table 7: Supported statuses

13 Appendix D: Unicode SMS and international characters

This appendix will give you detailed information about the unicode sms format as well as international characters.

If you would like to send messages in Arabic or Chinese language you need to specify **unicode** for the message type while the body of the message should be in **HEX encoded UTF-16 format**.

Maximum length of a unicode messages is **70** characters and 2 bytes are allocated for each character. In case of a longer message, it will be divided into several messages which are merged when delivered. Long unicode message can consist of maximum 4 parts/messages.

Below is the ASP example of sending the unicode SMS:

```
<%
' creating object
set Sms = Server.CreateObject("RoutoTelecom.Sender")
' setting parameters
Sms.Username = "your_username"
Sms.Password = "your_password"
Sms.MobileNo = "44791232321"
Sms.Owner = "4479987654321"
Sms.SMSType = "unicode"
Sms.Message =
"062D062706330628064A0646002006270644063006 4A0020064A063306
45062D00200644064406460627063 3"
SmsResult = Sms.Send
Response.Write SmsResult
set Sms = Nothing
%>
```

Snippet 65: Appendix D: Unicode SMS and international characters

14 Appendix E: SMS binary messages

This appendix will give you additional information about the SMS binary messages. A binary message has to be in the following format:

UDH DATA

Where **UDH** is hex encoded User Data Header, as defined in **GSM 3.38** and **DATA** is the hex encoded message body.

Example: The group graphics:

```
06050415830000
00480E0100000380038000000000007C007C000000000000C00006000
0000000018F01E30000000000031F83F180000000000230C61880000000
0000606C0C000000000000606C0C000000000000606C0C0000000F1E3C6
1EF0C78F1E01FBF7E63EF8CFDFBF030E1C367EFCD870E1830E1C337C7D9
870E1830E1C31F83F1870E18
```

Snippet 66: Encoded

```
06050415830000%2000480E0100000038003800000000000007C007C0000
00000000C000060000000000018F01E30000000000031F83F1800000000
00230C6188000000000000606C0C000000000000606C0C00000000000060
6C0C0000000F1E3C61EF0C78F1E01FBF7E63EF8CFDFBF030E1C367EFCD8
70E1830E1C337C7D9870E1830E1C31F83F1870E18
```

Snippet 67: URL encoded

For further assistance with binary messages please Email support@routotelecom.com or contact us on 24/7 live chat available on our web site.