

# DEVELOPER GUIDE

*PointShift Orange SMS API*

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## 2 PointShift SMS API

Authorised users of the PointShift SMS API can programmatically submit text messages for delivery using TCP/IP and Internet protocols. This is accomplished by using the HTTP protocol to submit an XML packet containing the relevant data structure to the PointShift SMS gateway servers as described in this document.

The following conditions must be met to enable SMS messaging via the PointShift SMS gateway:

An existing PointShift user account; with relevant authentication details (username and password) belonging to this account. This information will be required when sending position requests to the PointShift messaging platform.

SMS messages can be sent out from and received in to the PointShift SMS gateway.

The sender name for outgoing messages is your virtual mobile number. Any messages received in to your virtual number will be 'posted back' to a URL as specified by the account owner.

Outgoing messages can be delivered to any network in the UK. Availability of networks in Europe and the rest of the world can be discussed on request.

Usage reports are available on a monthly basis to correspond with message billing.

### 3 SMS Gateway

In order to transmit delivery requests to our systems, the client application needs to establish a network connection to the PointShift gateway servers.

Environment connection details are as follows:

- HTTP gateway: <http://80.75.76.45>
- Server port: **80** (HTTP)
- Protocol: **TCP**

Retransmission to any server should NOT be attempted if a valid return code listed in section 4.2.1 was received. In this case, the gateway received your request, but rejected it on purpose due to some message or account related error. Any attempt to retransmit such a request would result in the same error re-occurring.

The following URL should be used as the form post contents to encapsulate the xml packet as a valid http header:

URI: **xml**

HTTP Body Example: <http://80.75.76.45/SMSAPI.asp?xml=xmlpacket>

**Please note:** Ensure that you HTML Encode the XML packet before submitting to the location gateway. All characters contained with the XML packet must be legal as per the XML 1.0 specification.

## 4 Outgoing SMS Messages

### 4.1 Delivery Parameters

Outgoing SMS delivery requests should be posted in to 'SMSAPI.asp'.

One mobile number may be placed per HTTP request.

The outgoing SMS message XML packet is made up of two elements. The first defines the account authentication details and the second defines the details of the message and recipient handset(s) as shown in the tables below.

Delivery reports will be available in the next release of the PointShift SMS gateway.

#### **AUTHENTICATION PARAMETERS**

<b>ELEMENT</b>	<b>DESCRIPTION</b>
ACCOUNTID	Account ID is the username that was specified by PointShift. This is the account holder identification.
PASSWORD	Password for account.
CUSTID	Customer ID - this can be used by the customer to identify messages sent by different departments / users for reporting purposes. If no customised CustID is required the Account ID should be set in this field.

#### **SMS DELIVERY PARAMETERS**

MESSAGE	Content of the message to be delivered to the specified mobile numbers. Messages can be a maximum of 160 characters. Any characters over the 160 character limit will be truncated.
MOBILENO	MSISDN of the mobile handset number or SIM card number to receive the message. Mobile numbers must conform to the following format:

	<ul style="list-style-type: none"><li>• Include country code.</li><li>• Have no leading '0'.</li><li>• Have no '+' character.</li></ul> UK example - <b>447712345678</b> .
SENDER	The Sender name will be displayed on the recipient's handset as the originator of the message. Sender can be either alphanumeric or numeric, and can be up to 11 characters.

#### 4.1.1 Example Location Request

```
<%@ LANGUAGE = JavaScript%>
<%
var xmlhttp = new ActiveXObject("MSXML2.XMLHTTP");
var xmlDoc = new ActiveXObject("Microsoft.XMLDOM");
var strXML="";
var strXML = "<?xml version='1.0' encoding='iso-8859-1'?>"
    strXML+="<SMSRequest>"
    strXML+="<SMSAuthentication>"
    strXML+="<ACCOUNTID>xxxx</ACCOUNTID>"
    strXML+="<PASSWORD>yyyy</PASSWORD>"
    strXML+="<CUSTID>Cust1</CUSTID>"
    strXML+="</SMSAuthentication>"
    strXML+="<SMSData>"
    strXML+="<MESSAGE>"
    strXML+="Your message goes here"
    strXML+="</MESSAGE>"
    strXML+="<MOBILENO>"
    strXML+="447786134947"
    strXML+="</MOBILENO>"
    strXML+="<SENDER>"
    strXML+="SenderHere"
    strXML+="</SENDER>"
    strXML+="</SMSData>"
    strXML+="</SMSRequest>"
var encodedXML = escape(strXML);

xmlhttp.Open("post", "http://80.75.76.45/SMSAPI.asp",false);
xmlhttp.setRequestHeader("Content-Type", "application/x-www-form-
urlencoded");
xmlhttp.Send("xml="+encodedXML);
strXML1 = xmlhttp.responseText;
xmlDoc.loadXML(strXML1);
Response.Write(strXML1);
%>
```

#### 4.2 Outgoing SMS Response Parameters

ELEMENT	DESCRIPTION
CustID	The CustID account used to send the message.

MobileNo	Mobile number to receive the message.
Message	Content of the message to be delivered.
TransID	Unique string generated by the SMS Gateway to identify this particular transaction. This element will be utilised in Phase Two when delivery reports are implemented.
ResponseCode	Numeric error code to indicate success or the cause of any failure. 00 = Success. See 4.2.1 for Response Code details.
ResponseMsg	Plain text description of the Response Code.

#### 4.2.1 Outgoing SMS Response Codes

CODE	DESCRIPTION
00	Message processed for delivery.
11	Password is not correct for this account.
12	Account ID is not registered for this service.
13	Insufficient credits to send message.

### 4.3 Outgoing SMS Request Response

#### 4.3.1 Example Outgoing SMS Request Response - Successful

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<SMSAPI>
  <SMSRequest>
    <CustID>Cust1</CustID>
    <MobileNo>447786134947</MobileNo>
    <Message>Test Message</Message>
  <SMSResponse>
```

```
<TransID />  
<ResponseCode>00</ResponseCode>  
<ResponseMsg>Message processed for  
delivery</ResponseMsg>  
</SMSResponse>  
</SMSRequest>  
</SMSAPI>
```

#### 4.3.2 Example Outgoing SMS Request Response - Unsuccessful

```
<?xml version="1.0" encoding="iso-8859-1" ?>
<SMSAPI>
  <SMSRequest>
    <CustID>Cust1</CustID>
    <MobileNo>447786134947</MobileNo>
    <Message>Test Message</Message>
    <SMSResponse>
      <TransID />
      <ResponseCode>11</ResponseCode>
      <ResponseMsg>Password is not correct for this
        account</ResponseMsg>
    </SMSResponse>
  </SMSRequest>
</SMSAPI>
```

## 5 Incoming SMS Messages

Results are posted back to a URL, as specified by the customer. The following format is returned:

ELEMENT	DESCRIPTION
MobileNo	Mobile number of incoming message.
Message	Content of incoming message.
TimeStamp	Date and time incoming message received.
TransID	This element will be used in the next release for outgoing delivery reports.
ResponseCode	Numeric error code to indicate success or the cause of any failure. 0 = Success. See 5.1 for Response Code details.
ResponseMsg	Plain text description of the Response Code.

### 5.1 Incoming SMS Response Codes

Note: incoming response codes will be extended when delivery reports are introduced.

CODE	DESCRIPTION
00	Incoming message.

### 5.2 Example Incoming SMS Message Post Back

```
<?xml version="1.0" encoding="iso-8859-1" ?>
  <SMSAPI>
    <SMSIn>
      <MobileNo>447786134947</MobileNo>
      <Message>Incoming message content</Message>
```

```
<TimeStamp>22/09/2004 09:39:19</TimeStamp>  
<TransID />  
<ResponseCode>00</ResponseCode>  
<ResponseMsg>Incoming message</ResponseMsg>  
</SMSIn>  
</SMSAPI>
```

## 6 Document History

### 6.1 Revision History

**Date of this revision:** 2<sup>nd</sup> August 2005

REVISION	SUMMARY OF CHANGES
V1.0 – 01/09/04	First issue.
V1.1 – 22/09/04	Incoming SMS XML Example amended.
V1.2 – 01/10/04	Update Outgoing XML to include new parameters.
V1.2.1 – 01/01/05	Update Copyright date.
V1.3 – 01/09/05	Modified XML.