



Introduction

We offer an http based API to send bulk messages, the format caters for single or multiple messages in one POST. Be aware that this message format will be extended from time to time. New additions will always be backward compatible, but it is important to allow for additional attributes or fields to be added. Make sure you do not treat new attributes or elements as errors.

Implementation

The message format has a header that contains the authentication details as well as all default values that should apply to the messages, each message under the header contains the destination and any value that is different from the default values specified in the send header.

A available credit check is performed before any messages are stored for submission, to ensure that all the messages in the batch can be processed. The maximum number of messages that can be sent in a single POST is 20 000, the reason for this limit is to ensure that the transaction will not time-out.

The message is send in the POST data of the http POST and is in a standard xml format. The response message is in xml format and will contain the status, a unique reference and the number of credits used to process the message.

NB. Your account is locked during a post, please ensure that the post is completed before starting any new posts.

Post address:

<http://smsserver.channelmobile.co.za:8088>

Message types

The system supports the following message types:

- send** – Allows the user to send messages.
- receive** – Check the queue for inbound or reply messages.
- balance** – Return the current available credits

The system can be configured to post incoming message to the client's web service using HTTP POST.

Send messages (send)

The send element is used to determine the action to be taken, the authentication details and the default values that will apply to all message elements under the send element



**attributes:**

user	The username of the account user
password	The password for the account user
from	The default source address for all messages



notify	The destination for notification messages, this will be configured in the account user settings, but can be changed using this attribute. The format is a properly formatted URL. To disable notification for all messages in the request specify none . If you omit this attribute, the settings from your account user profile will be used
reply	The destination for reply messages, this will be configured in the account user settings, but can be changed using this attribute. The format is a properly formatted URL. If you omit this attribute, the settings from your account user profile will be used
concatenate	The concatenation level for the messages. The possible values are: 0 – TRIM (the message will be trimmed to 160 characters if it is longer than 160 characters) 1 – SPLIT (the message will be split into multiple messages of 160 characters of the message is longer than 160 characters, this will generate additional messages and will be charged as multiple messages) 2 – CONCATENATION (the message will be split into multiple messages of 153 characters, and will be marked as concatenated, the phone will then stitch these messages together, and they will arrive as a single long message on the phone, this will generate additional messages and will be charged as multiple messages)
validity	The validity period of the message, this will cause the message to be deleted if it could not be delivered to the phone in the specified period. This is specified as a number and units, eg 24hours. The possible units are: minute, hour and day.
type	The type of message. This indicated the type of message and determines how the message text should be processed. The possible values are: text – normal text message. flash – a flash message, this is a message that will flash on the handset, and will not be saved in the inbox. The user will not be able to access the message after it has been displayed. binary – a binary formatted message, this can be used to send OTA messages, the message text must be in HEX format 16bit – the message is a 16bit or UCS2 formatted message, these messages are used to send message in non-western



	alphabets, the maximum length of these messages are 80 characters as each character in the message uses 2 bytes. The message text must be in HEX format
--	---

contents

The content of the element can be set to the default message text. When sending the same message to number of numbers specify the text in the send element.

Sub elements**message**

The message element contains the number the message must be sent to. This element can occur up to 2000 times in the send header. The contents of the element is the message to be delivered. If the same message text is to be delivered to all numbers, the text can be specified in the send element.

attributes:

from	The source address
notify	The destination for notification messages, this will be configured in the account user settings, but can be changed using this attribute. The format is a properly formatted URL. To disable notification for the message specify none . If you omit this attribute, the settings from your account user profile will be used
reply	The destination for reply messages, this will be configured in the account user settings, but can be changed using this attribute. The format is a properly formatted URL. If you omit this attribute, the settings from your account user profile will be used
concatenate	The concatenation level for the messages. The possible values are: 0 – TRIM (the message will be trimmed to 160 characters if it is longer than 160 characters) 1 – SPLIT (the message will be split into multiple messages of 160 characters of the message is longer than 160 characters, this will generate additional messages and will be charged as multiple messages) 2 – CONCATENATION (the message will be split into multiple messages of 153 characters, and will be marked as concatenated, the phone will then stitch these messages



	together, and they will arrive as a single long message on the phone, this will generate additional messages and will be charged as multiple messages)
validity	<p>The validity period of the message, this will cause the message to be deleted if it could not be delivered to the phone in the specified period. This is specified as a number and units, eg 24hours.</p> <p>The possible units are: minute, hour and day.</p>
type	<p>The type of message. This indicated the type of message and determines how the message text should be processed.</p> <p>The possible values are:</p> <p>text – normal text message.</p> <p>flash – a flash message, this is a message that will flash on the handset, and will not be saved in the inbox. The user will not be able to access the message after it has been displayed.</p> <p>binary – a binary formatted message, this can be used to send OTA messages, the message text must be in HEX format</p> <p>16bit – the message is a 16bit or UCS2 formatted message, these messages are used to send message in non-western alphabets, the maximum length of these messages are 80 characters as each character in the message uses 2 bytes. The message text must be in HEX format</p>

contents

The message text of the message.

Examples

A request with multiple messages, each with its own unique message text.

```
<?xml version="1.0" encoding="UTF-8"?>

<send user="lester" password="password" from="808081" validity="48h">
  <message to="+27844825621">Test message to +27844825621</message>
  <message to="+27833042819">Test message to +27833042819</message>
  <message to="+27826051592">Test message to +27826051592</message>
</send>
```

A request with multiple messages, each with the same message text.

```
<?xml version="1.0" encoding="UTF-8"?>
```





```
<send user="lester" password="password" from="808081" validity="48h">Test message

    <message to="+27844825621"/>
    <message to="+27833042819"/>
    <message to="+27826051592"/>
</send>
```

Response message

The response xml message

Success

```
<?xml version="1.0"?>

<send-response credits="100.000000" available-credits="1712207.200000" status="0">

    <message from="+27840000000" to="+27844825621" status="0"
    cost="10.000000" reference="30447"/>

    <message from="+27830000000" to="+27833042819" status="0"
    cost="10.000000" reference="30448"/>

    <message from="+27820000000" to="+27826051592" status="0"
    cost="10.000000" reference="30449"/>

</send-response>
```

Error – Invalid username or password

```
<?xml version="1.0"?>
<send status="1" error="authentication failure"/>
```

Error – Insufficient funds

```
<?xml version="1.0"?>

<send-response credits="100.000000" available-credits="7.200000" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE">

    <message from="+27820000000" to="+27822390499" status="10006"
    error="INSUFFICIENT FUNDS AVAILABLE"/>

</send-response>
```



```
<message from="+27840000000" to="+27846017606" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27820000000" to="+27827405367" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27830000000" to="+27832339673" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27830000000" to="+27834445357" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27820000000" to="+27827571974" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27830000000" to="+27835936401" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27830000000" to="+27831063850" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27840000000" to="+27841791947" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
<message from="+27830000000" to="+27832813356" status="10006"
error="INSUFFICIENT FUNDS AVAILABLE"/>
```

```
</send-response>
```

Error – Invalid phone number

```
<?xml version="1.0"?>
```

```
<send-response credits="80.000000" available-credits="9927.200000" status="10004"
error="Invalid network prefix for '+27634196314'">
```

```
<message from="+27820000000" to="+27824043070" status="0"
cost="10.000000" reference="31421"/>
```

```
<message from="+27820000000" to="+27725640794" status="0"
cost="10.000000" reference="31422"/>
```

```
<message from="+27830000000" to="+27838369033" status="0"
cost="10.000000" reference="31423"/>
```

```
<message from="+27840000000" to="+27746027525" status="0"
cost="10.000000" reference="31424"/>
```

```
<message from="+27830000000" to="+27739933449" status="0"
cost="10.000000" reference="31425"/>
```

```
<message from="808081" to="+27643444273" status="10004"
error="UNKNOWN DESTINATION ADDRESS +27643444273"/>
```





```
<message from="808081" to="+27634196314" status="10004"
error="UNKNOWN DESTINATION ADDRESS +27634196314"/>

<message from="+27830000000" to="+27838142860" status="0"
cost="10.000000" reference="31426"/>

<message from="+27830000000" to="+27837809583" status="0"
cost="10.000000" reference="31427"/>

<message from="+27830000000" to="+27739244961" status="0"
cost="10.000000" reference="31428"/>
```

```
</send-response>
```





Receive message (receive)

The receive element returns inbound messages or replies. The response can contain up to 2000 inbound messages

attributes:

user	The username of the account user
password	The password for the account user

Response message

The response xml message

Success

```
<?xml version="1.0"?>
```

```
<receive user="lester">
```

```
  <message to="+2782007076000172" from="+27825643252" created="2015-01-28 14:31:26" options="" type="text">Thank you</message>
```

```
</receive>
```

Balance message (balance)

The balance element returns the current balance

attributes:

user	The username of the account user
password	The password for the account user

Response message

The response xml message

Success

```
<?xml version="1.0"?>
```

```
<balance-response status="0" available="9927.200000" type="PrePaid"/>
```

