



VOIP

PC2Fax

Loyalty Services

Fax2Email

Business Services

Virtual Business Center

Virtual PABX

Email

SMS

Virtual Receptionist

Online Storage

Infotainment

SMS API  
December 2008

**Revision History:**

<b>Author</b>	<b>Version</b>	<b>Date</b>	<b>Description</b>
Danie van der Walt	0.1	01/03/2008	Initial Spec
Danie van der Walt	0.2	20/09/2008	-Added User Credit Level Functionality -Added Extra User Administration Checks -Allow 480 Characters Per Sms -Allow Multiple Id's in Deletemessages
Danie van der Walt	0.3	30/10/2008	-Added parent_sms_id to the newmessages call -Added API_DOC_VERSION return to login call
Danie van der Walt	0.4	24/11/2008	-Added Validation on sendmessage, to only allow characters that phones can display.
Danie van der Walt	0.5	08/02/2009	-Added Email2SMS specification.

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## **General Notes:**

- This socket handles one request at a time
- Always login first to get a session ID. This session ID is required for all API calls
- Sessions will reset after 10 minutes of inactivity
- All numbers must be in international format, eg; +27123456789

## **Allowed Characters:**

@£\$¥€ùìòÇØøÅåΘÆæÉ!\"'#%&'()\*+,-.  
/0123456789;.<=>?\_¡ABCDEFGHIJKLMNÖPQRSTUVWXYZÄÖÑÜ§abcdefghijklmnopqrstuvwxyzäöñüà \n

## **Connection details:**

Port: 50000

Host: www.fwxgwsa.co.za

Always use a zero(c-style) string terminate(decimal value 0 char/00 Hex)

## **Login**

### **Description:**

To log into an account, and get a session var allocated to your login.

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>login</api_action>
  <api_username>xxxx</api_username>
  <api_password>yyyy</api_password>
</sms_api>
```

### **Info:**

<api\_username> - the user's username  
<api\_password> - the user's password

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <session_id></session_id>
  <api_doc_version></api_doc_version>
</sms_api>
```

### **Info:**

<error\_type> - only if there was an error  
<api\_sessionid> - used to track the user's actions for that session  
<api\_doc\_version> - The Version Of the API Document

## **Logout**

### **Description:**

This Function is used to release the sessionid

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>logout</api_action>
  <api_sessionid></api_sessionid>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

### **Reply Xml:**

```
<?xml version="1.0"?>
  <status></status>
  <error_type></error_type>
</sms_api>
```

### **Info:**

<status> - if successful

## **AccountInfo**

### **Description:**

This Function is used to get information about the account details provided

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>accountinfo</api_action>
  <api_sessionid></api_sessionid>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <agent></agent>
  <max_daily>-1</max_daily>
  <max_weekly>-1</max_weekly>
  <max_monthly>-1</max_monthly>
  <max_total>-1</max_total>
  <start_date>2001-01-01</start_date>
  <end_date>2999-01-01</end_date>
  <logged_in_time>2007-10-12 13:23:44</logged_in_time>
  <admin>0</admin>
  <name></name>
  <email></email>
  <credit_lvl></credit_lvl>
  <notification_type></notification_type>
  <contact_number></contact_number>
  <received_today></received_today>
  <received_week></received_week>
  <received_month></received_month>
  <received_total></received_total>
  <sent_today></sent_today>
  <sent_week></sent_week>
  <sent_month></sent_month>
  <sent_total></sent_total>
</sms_api>
```

### **Info:**

<agent> - under which usergroup does the user fall  
<max\_daily> - how many sms's can be sent by the user per day (-1 unlimited)  
<max\_weekly> - how many sms's can be sent by the user per week (-1 unlimited)  
<max\_monthly> - how many sms's can be sent by the user per month (-1 unlimited)  
<max\_total> - how many sms's can be sent in total by the user (-1 unlimited)  
<start\_date> - from when can the user login  
<end\_date> - till when can the user login  
<logged\_in\_time>when last did the user login  
<admin> 0- if a normal user  
          1-if admin rights  
<name> - name of the person's account  
<contact\_number> - a contact number for this account.  
<email> - email address that notifications get sent to  
<credit\_lvl> - Level At which to send a low credits notification to the user  
<notification\_type> - Type of notification (SMS/EMAIL/BOTH)

## **ModifyPassword**

### **Description:**

This Function is used to change the password of the user provided

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>modifypassword</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <password></password>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login  
<password> - new password

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - only if there was an error  
<status> - only if successful



## **ModifyContactDetails**

### **Description:**

This Function is used to change the password of the user provided

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>modifycontactdetails</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <name></name>
    <contact_number></contact_number>
    <email></email>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<name> - Name of the person who uses this account

<contact\_number> - contact number

<email> - email address (for notifications)

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - only if there was an error

<status> - only if successful

## **ModifyNotifications**

### **Description:**

This Function is used to change the password of the user provided

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>modifynotifications</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <credit_lvl></credit_lvl>
    <notification_type></notification_type>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<credit\_lvl> - When to start notifying the user of low credits

<notification\_type> - SMS / EMAIL / BOTH

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - only if there was an error

<status> - only if successful

## **ForgotLogin**

### **Description:**

This Function is used to send a sms reminder to the user, of their login details

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>forgotlogin</api_action>
  <action_content>
    <contact_number></contact_number>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<contact\_number> - contact number that was supplied when the user was created

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - only if there was an error

<status> - only if successful

## **AdminUserList**

### **Description:**

Displays a list of all users under your control, if you have admin access.

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>adminuserlist</api_action>
  <api_sessionid></api_sessionid>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <user>
    <username>test</username>
    <agent>TestAgent</agent>
  </user>
</sms_api>
```

### **Info:**

<user> - a tag will be returned per user under you  
<username> - the username of the user  
<agent> - under which user-group does the user fall under

## **AdminAddUser**

### **Description:**

Add A user under your account

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>adminadduser</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <username></username>
    <password></password>
    <agent></agent>
    <max_daily></max_daily>
    <max_weekly></max_weekly>
    <max_monthly></max_monthly>
    <max_total></max_total>
    <start_date></start_date>
    <end_date></end_date>
    <admin></admin>
    <name></name>
    <contact_number></contact_number>
    <email></email>
    <credit_lvl></credit_lvl>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

- <username> - the username for the new user
- <password> - the password
- <agent> - ignored unless the admin user adding the account has an empty agent
- <max\_daily> - how many sms's can be sent in one day
- <max\_weekly> - how many sms's can be sent in one week
- <max\_monthly> - how many sms's can be send in one month
- <max\_total> - how many sms's can be sent in total(this has to be less that or equal to how many sms's the admin user has to allocate)
- <start\_date> - from when can this user login
- <end\_date> - till when can this user login
- <admin> - does the user have admin access(0 – no , 1- yes)
- <name> - name of the person
- <contact\_number> - a contact number
- <email> - email address to send notifications to
- <credit\_lvl> - if credits get less than this value, send a automated email every 10 minutes(-1, no mails)

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <return></return>
</sms_api>
```

### **Info:**

- <error\_type> - if a error occurred
- <return> - a successful notification

## **AdminModifyUser**

### **Description:**

To Modify details for an account

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>adminmodifyuser</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <username></username>
    <field_to_change></field_to_change>
    <new_field_value></new_field_value>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<username> - the username for the user , this cannot be changed

<field\_to\_change> - Specify The Field To Be Changed  
- Possible Values password

-password

-agent

-max\_daily

-max\_weekly

-max\_monthly

-max\_total

-start\_date

-end\_date

-admin

-name

-contact\_number

-email

<new\_field\_value> - the value the field should be set to.

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <return></return>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred

<return> - a successful notification

## **AdminGetUserInfo**

### **Description:**

Get information on a specified user, in your list

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>admingetuserinfo</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <username></username>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<username> - the username for the user that you want extra info on.

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <password></password>
  <agent></agent>
  <max_daily>-1</max_daily>
  <max_weekly>-1</max_weekly>
  <max_monthly>-1</max_monthly>
  <max_total>-1</max_total>
  <start_date>2001-01-01</start_date>
  <end_date>2999-01-01</end_date>
  <logged_in_time>2007-10-12 13:23:44</logged_in_time>
  <admin>0</admin>
  <name></name>
  <contact_number></contact_number>
  <received_today></received_today>
  <received_week></received_week>
  <received_month></received_month>
  <received_total></received_total>
  <sent_today></sent_today>
  <sent_week></sent_week>
  <sent_month></sent_month>
  <sent_total></sent_total>
</sms_api>
```

### **Info:**

<agent> - under which usergroup does the user fall

<max\_daily> - how many sms's can be sent by the user per day (-1 unlimited)

<max\_weekly> - how many sms's can be sent by the user per week (-1 unlimited)

<max\_monthly> - how many sms's can be sent by the user per month (-1 unlimited)

<max\_total> - how many sms's can be sent in total by the user (-1 unlimited)

<start\_date> - from when can the user login

<end\_date> - till when can the user login

<logged\_in\_time>when last did the user login

<admin> 0- if a normal user

1-if admin rights

<name> - name of the person's account

<contact\_number> - a contact number for this account.

## **AdminCloseUserAccount**

### **Description:**

Close a specified user account

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>admincloseuseraccount</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <username></username>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<username> - the username for the user account that you want to close

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <return></return>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred

<return> - a successful notification



## **NewMessages**

### **Description:**

Get New Messages for a user

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>newmessages</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <smstime></smstime>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<smstime> - if smstime is empty the system will only return new messages since the last time of this call for this user.  
if smstime (format yyyyymmddHHMMSS) is filled in, it will return all message since that time

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <sms>
    <sms_id></sms_id>
    <msisdn></msisdn>
    <message></message>
    <destination></destination>
    <timereceived></timereceived>
    <parent_sms_id></parent_sms_id>
  </sms>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred  
<sms\_id>- id of the sms  
<sms> - tag returned per sms found  
<msisdn> - number the message was sent from  
<message> - the message in the sms  
<destination> - the number the message was sent to  
<timereceived> - the time the message was received  
<parent\_sms\_id> - gives you the id of the sent sms that this sms was linked to.

## **DeleteNewMessages**

### **Description:**

Delete New Messages for a user

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>deletenewmessages</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <sms_id></sms_id>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login  
<sms\_id> - the id of the sms to be deleted

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred  
<status> - if successfull

## **SendMessage**

### **Description:**

Send Sms Messages

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_sessionid></api_sessionid>
  <api_action>sendmessages</api_action>
  <action_content>
    <sms>
      <msisdn></msisdn>
      <message></message>
      <source_addr></source_addr>
      <sentby></sentby>
      <smstype></smstype>
      <rule></rule>
      <send_at></send_at>
    </sms>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<sms> - tag per sms set(if you which to send more than one sms with different message)

--Mandatory

<msisdn> - number(s) to send the message to, delimited by ~

<message> - message to be sent

- Allowed Characters: See General Notes

--Optional

<rule> - which rule to link the message to

<send\_at> - when to send the sms (yyyy-mm-dd HH:MM:SS)

--Optional- Please do not specify these, unless you have been given the correct values by foneworx

<source\_addr> - the number the message is sent from (only works if you also specify

<sentby>)

<sentby> - the bind/account to use to send the message

<smstype> - 0 for normal text sms, 64 for encoded sms, and then message has to contain the hex string

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <sms>
    <msisdn></msisdn>
    <message></message>
    <source_addr></source_addr>
    <sentby></sentby>
    <smstype></smstype>
    <submit></submit>
    <sms_id></sms_id>
  </sms>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred

<sms\_id>- id of the sms

<submit> - success/fail

## **SentMessages**

### **Description:**

Get Status Updates For Sent Messages

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>sentmessages</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <smstime></smstime>
    <give_detail></give_detail>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<smstime> - if smstime is empty the system will only return new messages since the last time of this call for this user.  
if smstime (format yyymmddHHMMSS) is filled in, it will return all message since that time

<give\_detail> - if you want the message and the destination numbers returned for each sms  
(1) – true (0)-false

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <sms>
    <sms_id></sms_id>
    <status_id></status_id>
    <status_text></status_text>
    <time_submitted></time_submitted>
    <time_processed></time_processed>
    <rule></rule>
    <short_message></short_message>
    <destination_addr></destination_addr>
  </sms>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred

<sms> - tag returned per sms found

<sms\_id>- id of the sent message

<status\_id> - id of the status of the sms

<status\_text> - description of the status

<time\_submitted> - time the sms was submitted to the network

<time\_processed> - time the last update was received from the network

<rule> - which rule to link the message to

## **DeleteSentMessages**

### **Description:**

Delete a Sent Message

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>deletesentmessages</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <sms_id></sms_id>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login  
<sms\_id> - the id of the sms

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <status></status>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred  
<status> - Success

## **AddUserAddressContact**

### **Description:**

Add a Contact Number to the DB

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>adduseraddresscontact</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <contact>
      <group_name></group_name>
      <contact_name></contact_name>
      <contact_number></contact_number>
    </contact>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

- <contact> - tag per contact to be added
  - <group\_name> - the name of the group the contact should be in
  - <contact\_name> - the name of the contact
  - <contact\_number> - the cell number of the person

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <contact>
    <group_name></group_name>
    <contact_name></contact_name>
    <contact_number></contact_number>
    <contact_id></contact_id>
  </contact>
</sms_api>
```

### **Info:**

- <error\_type> - if a error occurred
- <contact\_id> - the id for that contact

## **ModifyUserAddressContact**

### **Description:**

Modify a contact in the db

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>modifyuseraddresscontact</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <contact>
      <contact_id></contact_id>
      <group_name></group_name>
      <contact_name></contact_name>
      <contact_number></contact_number>
    </contact>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

- <contact> - tag per contact to be added
  - <contact\_id> - the id of the contact to be changed
  - Optional only specify the options that need to change
  - <group\_name> - the name of the group the contact should be in
  - <contact\_name> - the name of the contact
  - <contact\_number> - the cell number of the person

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <contact>
    <contact_id></contact_id>
    <change></change>
  </contact>
</sms_api>
```

### **Info:**

- <error\_type> - if a error occurred
- < change> - Success/Fail

## **DelUserAddressContact**

### **Description:**

Delete a contact from the db

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>deluseraddresscontact</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <contact>
      <contact_id></contact_id>
    </contact>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

<contact> - tag per contact to be added

<contact\_id> - the id of the contact to be changed

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <error_type></error_type>
  <contact>
    <contact_id></contact_id>
    <change></change>
  </contact>
</sms_api>
```

### **Info:**

<error\_type> - if a error occurred

< change> - Success/Fail



## **GetUserAddressContactGroups**

### **Description:**

Get Unique Groups for this user

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>getuseraddresscontactgroups</api_action>
  <api_sessionid></api_sessionid>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <group></group>
</sms_api>
```

### **Info:**

<group> - returns a group tag for each group in the db...

## **GetUserAddressContact**

### **Description:**

Get contacts for this user

### **Sent Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <api_action>getuseraddresscontact</api_action>
  <api_sessionid></api_sessionid>
  <action_content>
    <contact_id></contact_id>
    <group_name></group_name>
  </action_content>
</sms_api>
```

### **Info:**

Where session\_id is the returned values from login

Do not send either <contact\_id> or <group\_name> to retrieve all contacts

Fill in either <contact\_id> or <group\_name> to reduce result set

### **Reply Xml:**

```
<?xml version="1.0"?>
<sms_api>
  <contact>
    <contact_id></contact_id>
    <group_name></group_name>
    <contact_name></contact_name>
    <contact_number></contact_number>
  </contact>
</sms_api>
```

### **Info:**

<group> - returns a group tag for each group in the db...

## **Email2SMS**

### **Description:**

Send SMS's via a text email

### **Mail Format:**

**To :** [revolutions@foneworx.co.za](mailto:revolutions@foneworx.co.za)

**Subject :** <username>,<password>

**Email Body(Text Only) :**

<number>~<message>`

<number>~<message>`

### **Info:**

You will have to send a text email to the specified email address.

The subject will contain your username and password.

In the email body, you will have your messages you want to send.

A mail will be sent back to the sender, informing them of which numbers where queued, and which had a error on.

<username> = your username

<password> = your password

<number> = the number you want to send the sms to

<message> = the message you want to send(xml friendly format)

### **Reply Email:**

Message Body:

<number>{tab}<message> : <status>

### **Info:**

<status> - status of the message

Successfully sent = Accepted by system and queued for delivery.

Failed xxxxxx = not accepted by system