XML File API Integration Guidelines

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Change History

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Date	Author	Remarks
19 Apr 2012	Praveen Paulose	Initial Release
24 Apr 2012	Praveen Paulose	Updated API to allow multiple recipients for a single SMS, allow multiple SMS in a single file submission and allow reference to groups and contacts stored in the local SMS ConneXion Address Book.
28 Apr 2012	Praveen Paulose	Updated queue folder location to point to a single path for different install modes.
15 May 2012	Praveen Paulose	Enhanced the API to accept message tags

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Introduction

SMS ConneXion®, a CELUSION® enterprise offers a complete range of two-way interactive SMS solutions that allows you to rapidly deploy text messaging capability to your corporate information system.

Do you have a software system that needs to empower users with the functionality of SMS? We believe that the success of our products depend on mass adoption and have a created a vast range of software API's to simplify integration with your legacy systems. Our SOA (Service Oriented Architecture) has been implemented in various web portals, legacy software, core banking systems, SAP, Microsoft CRM and many more. We provide various modes of integration like HTTP, Web Services, XML File API and SMPP. Moreover to simplify your experience when integrating SMS ConneXion with your systems, we also provide samples in different programming languages.

This document contains detailed information on how to send SMS using the XML File API.

The API is platform / technology independent. You may integrate a Java, PHP, ASP, .NET or any other application using the XML File API.

Installation Modes

In order to use the XML File API to send SMS, you must have the SMS ConneXion Desktop Application installed at your premises and running in either **Stand-Alone** mode or **Client-Server (Server)** mode. The SMS ConneXion Desktop Application can be installed in 2 different modes i.e. Stand-Alone and Client-Server

Note: You CANNOT use the XML File API against a SMS ConneXion Desktop application configured to run in Client-Server (Client) Mode.

Stand-Alone: The application is installed as a Windows Desktop application and is responsible for transmission of SMS to the online SMS ConneXion servers. Only a single instance of SMS ConneXion desktop application is installed in the stand-alone mode. When deployed in a stand-alone mode, the SMS ConneXion Windows Desktop application must be running and SMS transmission must be ON to send SMS. When the SMS transmission is ON, it will also pick up SMS submitted using the XML File API.

Client-Server: In a client-server mode, multiple instances of the SMS ConneXion Desktop application are installed on different machines. One of the instances is configured to run as a server and all other instances are configured to run as clients. In this mode, the server is generally configured to transmit and receive SMS.

Server: The Windows Desktop application is configured as Client-Server (Server) and the same machine should also have the SMS ConneXion Gateway Service (Windows Service) installed. The server is responsible for transmission of SMS to the online SMS ConneXion servers. The primary advantage in this mode is that you do not need to have the desktop application running to send SMS. The Windows Service will always be running in the background and will send out SMS which are created by the user through the desktop application or created by automatic schedules. It will also pick up SMS submitted using the XML File API.

Client: The application is installed as a Windows Desktop application and is responsible only for creating the SMS. When configuring the application to run in Client-Server (Client) mode, if you have selected the option “Allow SMS Transmission”, then the client can also send SMS to the online servers. However, this mode does not pick up SMS submitted using the XML File API.

Send SMS

Queue Folder:

In order to send SMS you need to create a XML File in the **Queue** folder under the SMS ConneXion directory. The default location of the queue folder is C:\Program Files\Celusion Technologies\SMS ConneXion 3.0\Queue

XML File Format:

The file name should be <filename>.sms, where <filename> is a unique name e.g. 20120419110332.sms and created in the queue folder.

Note: The file extension can only be .sms

The file format is specified below:

```
<messages>
    <sms>
        <mobile></mobile>
        <contact></contact>
        <group></group>
        <content></content>
        <source></source>
        <tag></tag>
    </sms>
    <sms>
        <mobile></mobile>
        <contact></contact>
        <group></group>
        <content></content>
        <source></source>
        <tag></tag>
    </sms>
</messages>
```

Name	Value	Mandatory / Optional
mobile	<user-defined>	Either mobile, contact or group node is mandatory
contact	<user-defined>	Either mobile, contact or group node is mandatory
group	<user-defined>	Either mobile, contact or group node is mandatory
content	<user-defined>	Mandatory
source	<user-defined>	*Optional*
tag	<user-defined>	*Optional*

1. **mobile** – The mobile number to which you want to send the SMS. The mobile number should be prefixed by the country code. E.g. **91**9820077777 where 91 is the country code. There should be no spaces, alphanumeric characters, zero prefixes or + sign or – sign in the mobile number. You can specify multiple mobile numbers by comma separating the value in the mobile xml node. E.g. 919820077777, 919820077778
2. **contact** – The contact Ref ID to which you want to send the SMS. The contact should be defined in your SMS ConneXion local address book and the Ref ID can be viewed in the title bar of the Edit Contact screen. You can specify multiple contacts by comma separating the value in the contact xml node. E.g. 4, 5, 8
3. **group** – The group Ref ID to which you want to send the SMS. The group should be defined in your SMS ConneXion local address book and the Ref ID can be viewed in the title bar of the Edit Group screen. You can specify multiple groups by comma separating the value in the contact xml node. E.g. 1, 3
4. **content –** The text that you need to send as an SMS to one or more mobile phones. The text should be 160 characters in length. Messages longer than 160 characters will be split and sent as a long SMS.
5. **source** – The sender name or the source to be displayed on the mobile phone. If this is not specified, the API will pick up the default sender name in your SMS ConneXion profile.
6. **tag** – The tag to be associated to the message. The tag allows you to extract reports by SMS tags used for analysis.

Note: The XML File API supports multiple SMS in a single file. In order to send multiple SMS, create multiple <sms> nodes under the <messages> node in your XML file.

Examples:

Send SMS with default sender name:

```
<messages>
    <sms>
        <mobile>919820071275</mobile>
        <content>Good Day</content>
    </sms>
</messages>
```

Send SMS with dynamic sender name:

```
<messages>
    <sms>
        <mobile>919820077777, 919820077778</mobile>
        <content>Good Day</content>
        <source >CELUSION</source>
    </sms>
</messages>
```

Send SMS with tag:

```
<messages>
    <sms>
        <mobile>919820077777, 919820077778</mobile>
        <content>Good Day</content>
        <tag >accounts</tag>
    </sms>
</messages>
```

Send SMS to contacts defined in the local SMS ConneXion Address Book:

```
<messages>
    <sms>
        <contact>4,5,8</contact>
        <content>Good Day</content>
    </sms>
</messages>
```

Send SMS to groups defined in the local SMS ConneXion Address Book:

```
<messages>
    <sms>
        <group>1,3</group>
        <content>Good Day</content>
    </sms>
</messages>
```

Send multiple SMS:

```
<messages>
    <sms>
        <mobile >919820077777</mobile>
        <content>Good Day Jack</content>
        <tag>accounts</tag>
    </sms>
    <sms>
        <mobile >919820077778</mobile>
        <content>Good Day Jones</content>
    </sms>
</messages>
```

Note: The sender name should be pre-approved on the SMS ConneXion web site or else the SMS will not be sent.

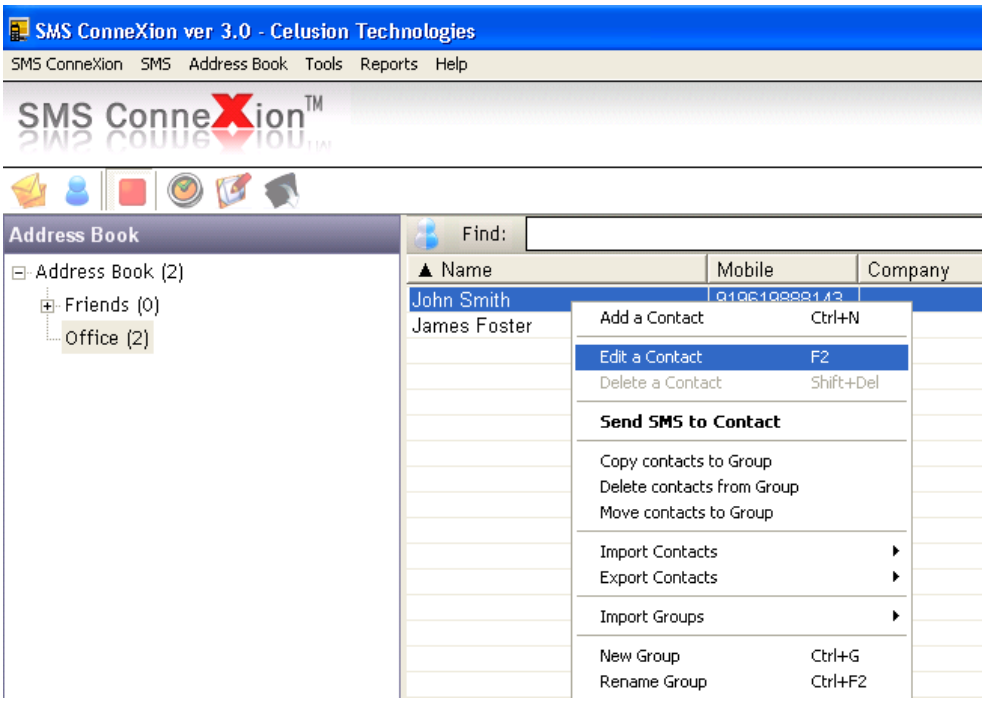
Demo Applications:

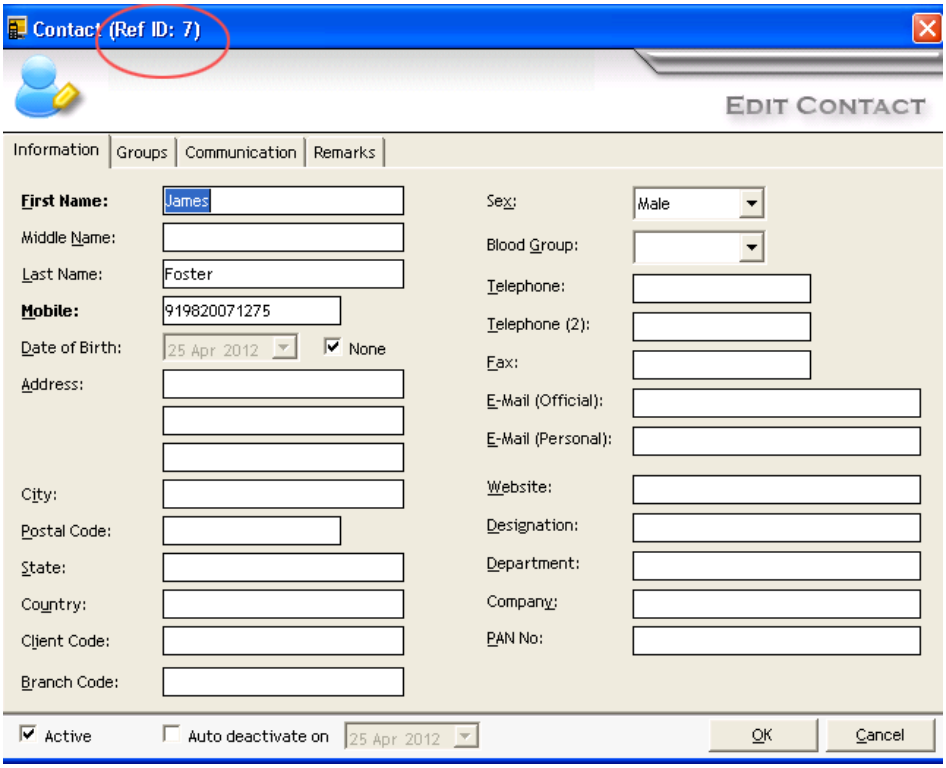
We have created a demo application in C# .NET for the convenience of software developers involved with the integration procedure i.e. XML File API (C# Sample). You may access this sample from the download section on the SMS ConneXion web site.

Contact & Group Ref ID

Contact Ref ID:

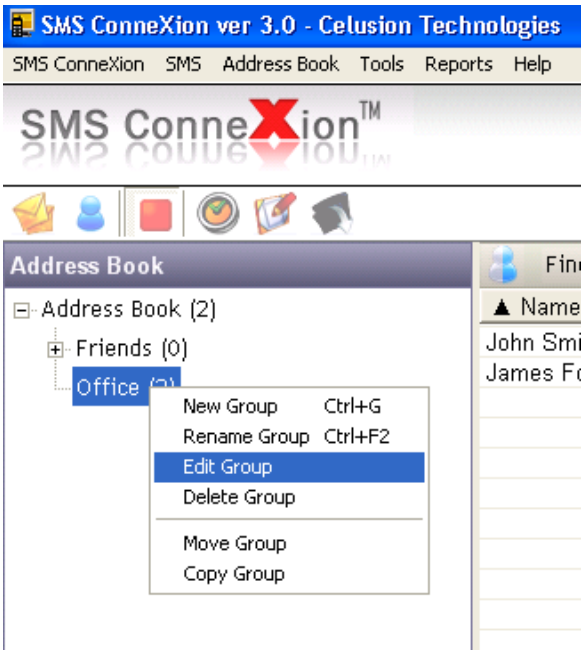
Right click on a contact and select 'Edit Contact'. The screen title displays the Ref ID for the contact.





Group Ref ID:

Right click on a group and select 'Edit Group'. The screen title displays the Ref ID for the group.




Group (Ref ID: 1)
EDIT GROUP
Name :
Office
Select where to place the group:
Address Book
Friends
Office
OK
Cancel