

Integrating SMS Sending Services using SMTP API (mail to SMS)

DEVELOPER GUIDE

Enabled by Popfax

We recommend developers to register as Popfax.com API's services user by sending an e-mail to the address:

[register \[AT\] api.popfax.com](mailto:register@api.popfax.com)

As a registered user you will receive information with all features, modifications and updates of the products.

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1 General description

This document describes how developers can include SMS sending functionality into their application by integrating Popfax Mail to SMS service (**mail2sms**). This service enables registered Popfax users to send an SMS to multiple recipients (up to 500). A SMS is sent to mobile phones by sending emails to the addresses +<mobile_numbers>@sms.popfax.com.

2 How to initiate service

In order to send an SMS from an email box via the Popfax service it is necessary to register for an account with Popfax and with the “mail to SMS” option. Please consult www.popfax.com, choose from the various options and activate your account (don’t forget to select a subscription with mail to SMS option enabled).

3 Authentication

User authentication is based on login (it is the user registered email) and password. You must send your mail2sms e-mails from the same email address as used for logging onto the system. The subject matter will contain your password. The password (or “SID”) is provided to you at service activation to www.popfax.com. The password can be retrieved from the “My Account” area by selecting the mail to fax menu. The same page will also allow clients to generate or choose a new password.

4 Mail format specification

In order to benefit from the mail2sms service it is important to keep to this format:

```
To: <DestinationNumber1>@sms.popfax.com,  
    <Destination Number 2>@sms.popfax.com,  
    .../  
    <Destination Number N>@sms.popfax.com,  
From: Client <client@company.com>  
Subject: <token or "SID" received from Popfax System>  
Body:  
  
<message> (must be under 160 characters or bytes -meaning that Russian,  
Arabic and Chinese characters can count for more than 1 byte-)
```

IMPORTANT: If the message does not correspond to this format, it will be rejected.

4.1 Supported mail formats

mail2sms service accepts e-mails with content in simple text or in html format.

4.2 Destination address

Mail2sms service may be reached at this address:

```
<Destination Number 1>@sms.popfax.com [; <Destination Number  
2>@sms.popfax.com; ...; <Destination Number N>@sms.popfax.com]
```

Where <Destination Number n> is a mobile phone destination number indicated in international format.

4.3 Mail Subject

Mails sent to the service shall contain in their "Subject" field only the password (or "SID") obtained from Popfax system. It is important to present it without additional information. This password is unique to each customer and **it is different from the account password** (it can be found in the "mail to fax" section of your account).

4.4 SMS content

The SMS content corresponds to the body of the message.

It must be under 160 characters; remaining characters will be ignored.

Note that Russian, Arabic or Chinese characters take more than 1 byte and thus fewer characters can be sent, depending of their byte size.

4.5 Destination number list

SMS sending can be done to multiple destination numbers. The mail2sms service currently accepts up to 500 numbers:

Destination numbers are indicated in the Send To: field in the following format:

```
<Destination Number 1>@sms.popfax.com [; <Destination Number  
2>@sms.popfax.com; ...; <Destination Number N>@sms.popfax.com]
```

4.6 SMS Sender

SMS sender is by default "Popfax.com" but can be changed to any of your own mobile numbers.

An ownership verification is done by sending a validation SMS to this number. It contains a code to enter as a confirmation in our website. This is done to avoid security problems involving the usage of someone else mobile number.

To change your SMS Sender field, login in your Popfax account, and select "Send an SMS" in the menu, the section with SMS sender personalization stands.



You can find this button in the Popfax MyAccount "Send an SMS" interface. It creates a pre-filled mail with the right format for sending a mail2sms.

ATTENTION : if you have an automated signature it will be automatically appended and therefore our system will consider it as part of the SMS text

5 Technical support

All Popfax customers are welcome to contact our customer service via the online contact form that can be found here:

<http://www.popfax.com/index.php?pop=contacts>

All requests will be answered.

6 Annexes

6.1 SMS status

The SMS sending as opposed to fax sending is in “Fire&Forget” mode. This means that, when we send an SMS, we can not definitely be sure the destination mobiles have well received the SMS.

Code	Description
OK	The SMS was correctly sent. We can not be sure the mobile user received the SMS successfully.
KO	Problems occurred while sending the SMS : the destination number was wrong or network problems could prevent from sending the SMS successfully.

6.2 System messages

The table below presents the messages currently reported by **mail2sms** service.

Message	Comments
(101) Invalid destination number list	One of the destination numbers is not valid. Details of valid numbers can be found here: http://www.popfax.com/Fax%20to%20email%20faq.html#a4
(103) Too many recipients list	Recipient list is too big, i.e.> 500
(104) No credit	Not enough credits to send the fax. Please recharge your account.
(107) Authentication error	While inserting your parameters (token and/or email), please refrain from inserting spaces or any other characters.
(109) Your mail was accepted	This message confirms that our system has accepted the service request.
(110) Internal system error, please try again. If problem persist, please contact Customer Care	A problem appeared while processing your request. Please repeat your attempt. In case of a persistant problem please report this to Customer Care: http://www.popfax.com/index.php?pop=contacts

6.3 Mail Example

```
From client@company.com  Fri Oct 13 14:18:17 2006
Return-Path: <client@company.com>
X-Original-To: +33123456789@sms.popfax.com
Date: Fri, 13 Oct 2006 04:17:28 -0700 (PDT)
From: client@company.com
Subject: SID8kjhdsfa72adf3fd
To: +33123456789@sms.popfax.com, +33123456799@sms.popfax.com,
+44123456789@sms.popfax.com, +39123456789@sms.popfax.com
MIME-Version: 1.0
Content-Type: text/plain; charset="UTF-8"
Content-Transfer-Encoding: 7bit
Content-Id:
```

Hello world.



You can find this button in the Popfax MyAccount "Send an SMS" interface. It creates a pre-filled mail with the right format for sending a mail2sms.

6.4 Example of SMS sending codes

All these code examples are based on system calls to the "nail" command line mailing tool. You can use other tools or use an SMTP library.

6.4.1 - C++

```
#include <string>
using namespace std;

int main()
{
    string command( "echo \"Hello World\" | nail -s SIDewerretwerhegf -r " );
    command.append( "client@company.com +33123456789@sms.popfax.com" );
    system( command.c_str() );
    return 0;
}
```

6.4.2 - Java

```
import java.io.IOException;
class Main
{
    static int main()
    {
        try
        {
            String command = new String( "echo \"Hello World\" | nail -s
            SIDewerretwerhegf -r client@company.com +33123456789@sms.popfax.com");
            Runtime.getRuntime().exec( command );
        }
        catch( IOException e )
        {
            System.out.println( e.getMessage() ) ;
        }
        return 0;
    }
}
```

6.4.3 - PHP

```
<?php
$command =    "echo \"/Hello World\" | nail -s SIDewerretwerhegf -r "
    . "client@company.com";
$command .=    "+33123456789@sms.popfax.com";
system( $command );
?>
```

or

```
<?php
mail( "+33123456789@sms.popfax.com", "SIDewerretwerhegf", "Hello World" );
?>
```