

## A review on GPRS Applications

Sarla Kharwar<sup>1</sup>, Krupa Patel<sup>2</sup>,  
Prof. Shyamal Virnodkar<sup>3</sup>,  
Department of Computer Engineering,  
K J Somaiya Institute of Engineering and Information Technology,  
Mumbai, Maharashtra, India  
<sup>1</sup>sarla.k@smaiya.edu  
<sup>2</sup>k.np@somaiya.edu  
<sup>3</sup>shyamal@somaiya.edu

**Abstract-** Files are scattered over multiple machines. In case if user forgets to take file in pen drive or email the file, user is left with no other option. But calling home or respecting location and explaining the person to navigate through the directory and mail the file. Now if the person is not computer educated or does not know how to operate the computer and internet then the situation become more difficult. In this case the user may face many issues as he might not get the required file. To overcome this problem many developers have come up with the mobile application which will remotely connect to your desktop and transfer the file. Now a days loss of contacts has become a major issue. So this app also gives the facility of automatic contact update, even if user doesn't have any Gmail or any other account on website. In this project we make an application which can search the desktop computer file using SMS as well as automatically update user's contact.

**Keywords**—GPRS-modem, AT commands, remote desktop, contact update

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### I. INTRODUCTION

SMS has shown significant resilience in market that is bombarded with media that all add to the clutter of daily communication. SMS is now accessible in many ways as a business tool. Consumers have been first in adopting SMS as a mean of communication, popularizing the protocol with a specific language and creating the playing fields that are now being entered by businesses. There are a variety of business applications used in industries such as:

- Mobile commerce and transaction
- Internal communication among staffs
- Field service and engineering
- Billing information updates

The increasing demand for applications and services that allow the development of new business, stimulate companies to increase the investment on network infrastructure services as well as telecommunication systems. These systems have had their complexity increased, interconnecting equipment of various manufacturers, which generally use different technologies. Accordingly, the increasing use of SLAs requires sophisticated monitoring and management systems. The purpose of the project is to search a file on remote machine by just sending a simple SMS and get that file mail it to user if found then application will be kind of desktop application where it will check for new incoming SMS. The application will first check whether the mobile number through which SMS has been sent is authorized to search the file or not. If not then the application will send back an acknowledgement saying that user is not authorized to search the file. If the user is authorized, than application will start the file search and if the file is found it will mail it user on the specified and registered email id only.

At the same time it will update the contact list as well. Contact list is already present in the user's home desktop. When he asks for a file then encrypted contacts list link is also sent on requesting mobile number. Link contains the IMEI number and mobile number. Now user will have to run that code. Code checks for IMEI and phone number specified in the link. If it matches then only contacts will be updated in his/her phone.

While sending SMS user has to send the option, file name, file path (optional) and email id. Apart from file search and emailing the file, application also support uploading, downloading the file from any FTP server provided the details of FTP server is known.

Technology development in the mobile communications has been growing substantially in recent years. The success of Global Systems for Mobile (GSM) [2] technology is a fact and the continuous growth of the Internet creates opportunities for the mobile cell companies to offer new data services, mostly Internet and Intranet access for mobile users all over the world.

Currently, two technologies have appeared as big players in the wireless arena. One is the result of the development and migration of LAN technologies, standardized by the IEEE as 802.11 or Wireless Fidelity (Wi-Fi). The other is General Packet Systems Radio (GPRS). GPRS was created to fulfill the needs for transmitting data packets over cellular telephony. Other technologies like Code Division Multiple Access - 1 x Radio Transmission Technology (CDMA - 1xRTT) and movements toward standardization with Universal Mobile Telecommunications Systems (UMTS) make it clear that a big market for wireless access is coming. This work is centered on mobile devices with GSM/GPRS

connectivity to provide network management facilities, despite having more limitations than standard computers. The basic ideas of the project are user send the file name using the SMS. After the SMS is reached to the computer the computer search the file as mentioned in the SMS and that file is attached and sent on registered email ID. This project also implements the updation of contacts without installing any app in the phone. Since loss of contact details may create major problem for the individual or an organization. So it is very important to have backup of contacts.

## II. EXISTING SYSTEMS

Generally there is no such existing system which illustrates the concept of the SMS file search. We have the desktop search facilities. We have the mobile file search facilities. But no application represented the concept of the SMS file searching. No application provides the smoother updation of contacts, as smoothly it can be done by this project. In current application if user deletes some contact then in the next synchronization process that contact will be deleted from the backup. It might be possible that user might need same contact later.

### Following are the some of the file search program.

#### 1) Desktop search:

Desktop search is common technique for the searching the file in windows application.

#### 2) Search using the voice:

There are some of the application which facilities the search technique using the human voice.

3) Team Viewer: Team viewer is developed by Team Viewer GmbH. It is a software package for remote control desktop sharing, web conferencing and file transfer between computers. It is popularly used to access the files on remote machine.

#### 4) Retrieving file through SMS:

Here the user gets required file through SMS only. But it is not applicable for files of larger size. Because the size of SMS is limited.

### Following are the some of the contact backup applications:

#### 1) Lookout:

In this application user has to register himself. He will have to download the app in the phone. In proposed application user need not to install the app in phone. Even he does not need to create an account separately

#### 2) Gmail:

Google provides contact synchronization facility. Gmail keeps track of contacts using mail ID on phone. Its limitation is that user should have a Gmail account.

#### 3) Android backup system

Android provides backup of contacts. After taking stored contacts reside in the SD card. But if user loses his phone itself, then in any way he can't get his contact back. This limitation is eliminated in proposed application.

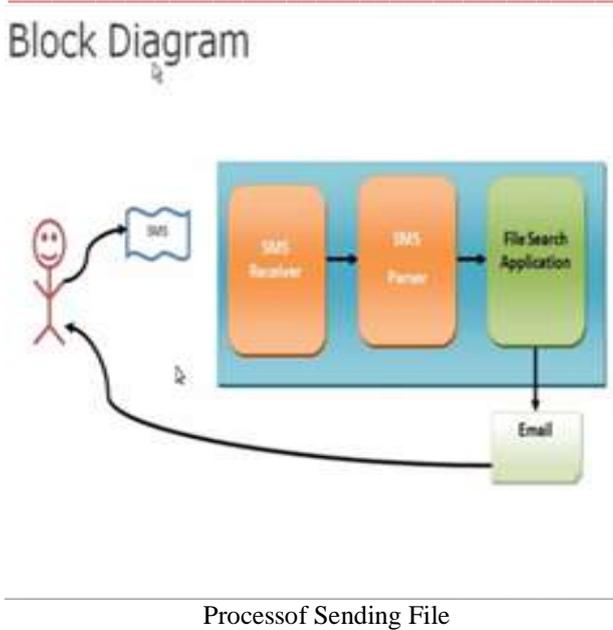
### 2.1 Drawback of the Existing system:

Following are the existing system drawback,

- The existing system search the file in the desktop users, if there is remote user then he/she can't search the file in his/her desktop.
- If any user want the file from the remote location then they must use the remote desktop connection.
- To establish connection between a local and remote client, Team Viewer generated ID and password of either client are required.
- Team Viewer needs administrator permission to startup, therefore not feasible to be used in office where employees don't exercise such rights. Team Viewer can't be used by illiterate user. We can say that it is not easy to use.
- For the Team Viewer it is necessary that it should be installed in both the desktops
- In many offices it is prohibited to use such software. So Team Viewer can't be used here.
- Only well educated person can maintain backup of contacts. As it requires registration creating password etc.
- In the currently available applications if contact get deleted then in next synchronization, back will not have that contact. It is possible that user may require same contact later at that time he will not get.
- For maintaining the backup user will have to install the app in the phone. Again unnecessary memory is wasted in just installing the app.
- For available backup applications user will have to remember password for particular account to maintain the backup.
- For existing apps user should have smart phone to maintain back up of contact.

## III. PROPOSED SYSTEM

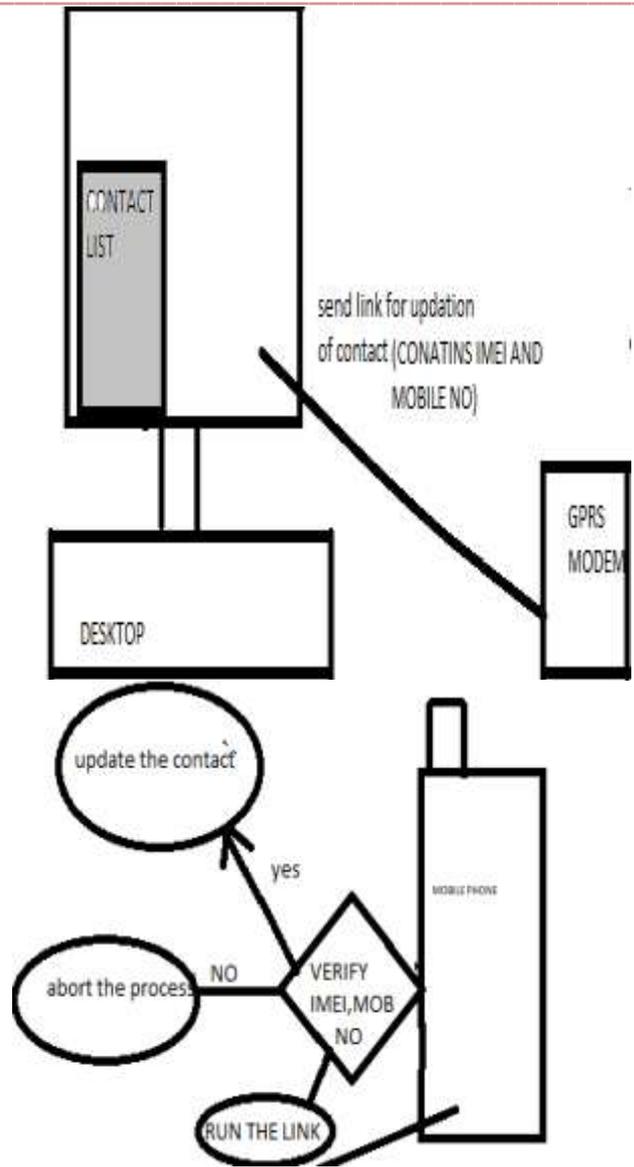
The solution to this problem is our proposed application. This application facilitates user to obtain a file located on home desktop through email by sending SMS. The SMS format will include the name of the file to be search, file location (optional). The application on receiving this SMS will search the file on remote machine and on finding it will attach it to the email and mail it. This file search on remote machine it will first search in 'Recent File' folder as it usually recently accessed files, if file is not found here then the application will search rest of the files. The user can also specify a direct path of the file in the SMS. Apart from mailing the searched file the application can also upload and download files from the FTP server.



If user asks for contact update then computer will send a link on phone containing IMEI and mobile number. The IMEI number and mobile number is stored in the desktop itself. IMEI and mobile number is used for authentication of mobiles that only authenticated mobile can get the contact update. Computer will automatically send link for contact update on mobile phone daily to avoid any inconvenience. User has to run that link, then verification of IMEI and mobile number will be done automatically. If verification is successful then contact list will get updated.

**Following is working of the proposed application.**

- The user of the system sends SMS to the desktop.
- The desktop computer receives the SMS using the GPRS
- After the reading the SMS, the computer will search the file.
- If file is found then the computer will send the file to the user's Email address.
- User may ask for contact update separately. He will SMS having link for contact update. The initial steps for contact update are:
- User connects his/her phone to his/her own desktop, and contact file automatically get stored in desktop. This feature is already present in PCs.
- Now the user will install an app in the computer. And he will register himself just by entering mobile number. This application will be machine dependent.
- The installed application will create an account using mobile number. All the contacts will be saved under this account only.
- User will upload the contact file on this website through installed application in desktop.
- After successful verification of IMEI and mobile number, contact will be updated.



For file search

**Case 1: Unauthorized user gets mobile phone**

In this case even if he gets mobile phone he will not be able to access any file, because he may not be knowing the name of files. Still if he knows file name, he may request for the file then file will be sent on registered mail id, which will be actual user's mail id. So unauthorized user will not be able to access it.

**For backup of contact**

**Case 1: phone is lost**

If user loses his phone, in this case he just has to enter the new IMEI number in application. Now using the same number he will request for contact update, again the desktop will send link containing new IMEI number and mobile number. When user will run this link, verification will be successful and contact of number will be sent to the

new phone(contact is updated). It is possible because contacts are saved using mobile number not IMEI number.

Case2:SIMcard is lost

In this case user will import the number on another SIM. So number will not change. User will send msg to the desktop for contact updation. Since number and IMEI number is verification is successful and he will get his lost contacts stored in SIM

Case 3:deleted a contact

Even if user deletes a contact that contacts will be there on the website.By updating his contact he can get that back

Case4:Unauthorized user gets IMEI and mobile number

If an Unauthorized user gets mobile number and IMEI number he will not be able to access contacts. Since there is no way to access the contacts online.

Case 4:Unauthorized user requests for contact updation.

If unauthorized user requests for contact updation then he will not get that. Because verification will not be successful. Because IMEI number will not match with specified IMEI number in the link

### Advantages of the proposed system

- By this project user can retrieve file from remote desktop.
- This project implements the SMS service. Since the SMS service the low cost service. Hence this project is cost effective.
- By using this app user is capable of retrieving file from anywhere irrespective of
- In this project the application needs to be installed on the client side only.
- Here no admin access is required due to client side installation.
- In this project application search for requested file if files are found then that file will be sent directly on the mail ID.
- User gets contacts at every instant without entering any password. Hence contacts are secured .hacking is not possible.Phishing websites can't use your confidential contacts.
- Technical knowledge is not required in this project for maintaining the backup

**Summary:** We successfully can retrieve file from remote desktop just by sending filename in SMS to the target desktop. It is cost effective method as well as time efficient method. It has got easy to use facility. Even it does not require any technical knowledge. For retrieving the file no Internet connection is required on phone. Secured contacts facility is ensured. Retrieval of backed up contacts is very easy. Since it does not require any technical knowledge it can be used by everyone.Each and everyone can maintain back up of his/her contact and can access to lost contacts.

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