Remote Access and Control in Android Mobile

**Abstract**

Remote access and control in android mobile application, users can access the phone from anywhere at any time through any phone. Just send a message to the phone and make smart use of the smart phone. Track your misplaced Android device with help of Android Device Manager. Android device manager is a control to lock the device officially and easy-to-use tool to track your android phone or tablet. The best thing about it is that you need to install a remote control android application to be able to track your devices. Tracking, letting your phone profile mode changing and lock your phone is an additional feature (which has to be enabled Administration process). In case there’s no laptop around you, and lost your device, you can also use someone else phone to track it.

**I. INTRODUCTION**

Smart phones are now part of the human body after the arrival of Google’s Android OS[8]. Android OS is Linux based mobile operating System distributed under open source licence Apache License version 2.0. Google and Open Handset Alliance is developing the Android OS. Android is basically written using C, C++ and Java. Android API level is identified by unique integer value. The latest API version is 25, named Android Nougat[7]. The basic building blocks of Android is

1. Activities
2. Services
3. Broadcast Receivers
4. Content Providers

Use the SMS pin code or SMS to allow other phones to control your phone. This is a very useful feature in case your phone is not connected to the internet. Your one time registration account has been enabling GPS to track on your phone location and other function based on your commands. If your phone is stolen and the thief changes your sim card your account on the phone will be disabled. When the SIM card is changed an email will be sent to the owner of the phone.

II. RELATED WORK

- **N. Park** proposed a paper, the open security architecture for LBS (Location-based Services) platform ensuring interoperability among the wireless networks and various location-based application services and the functional security requirements for the LBS platform. The goal of this paper is to investigate how well the most limited. Wireless devices can make use of LBS security services. In this paper, we suggest security acceleration methods for high speed open LBS using XML signcryption mechanism. And proposed secure LBS security protocols allow a client to offload mobile certificate handling to the server and to enable the central administration of privacy policies. The idea is to create a signcryption technique for software based XML signature acceleration\(^2\).

- **H. Srivatsa** describes a software application for android mobile platform that discovers various excited applications of SMSs over its traditional text messaging application. It shows how various features in android mobiles can be automated by SMS. By this application user can perform various operations in its mobile even if mobile is very far from him, like by sending a single text message we can fetch and store our contact numbers, fetch our device’s location, auto respond to the incoming messages, send SMS from our remote mobile, fetching SIM and mobile details used for GSM network. Convenience to the user, security and efficiency are main issues that are considered. This application makes the use of services like telephony, location based services (LBS) and native android applications.

- **J. R. Cuellar** proposed a paper to protect location privacy using mix zones--a new construction comparable to the mix nodes used for anonymous communications.

III. PROPOSED WORK

Use the mobile application on your remote Android smart phone and access to your personal platform via any other devices then Remote Phone Access is ready to use. Do not need to adjust any firewall settings. Provide assistance even when you're away. Strong encryption and master password will keep you safe and secure.

*Login Into SMS Remote App*
Login in to SMS Remote access application. After doing that, you should have access to all remote control features such as the following:

1. Read the latest SMS on your phone
2. Get the location of your device
3. Lock your phone
4. Read the contact phone number through SMS command
5. Profile will change based SMS Command.

![Login](image1.jpg)

**Figure 3.1: Working Procedure**

1) Proposed application architecture diagram showed in figure 3.1 in this, user send commands through message to the android device where this application is installed and registered. The message command consists of security key, command and response.
2) The security key is encrypted using MD5 algorithm (one way encryption)
3) If the security key and command are matched with the database the SMS readers read the message and perform the action based on the command.

**A. SMS Manager Service**

SMS Manager manages SMS operations such as sending data, text, messages etc. Get this object by calling the static method SmsManager.getDefault SMS Manager supports both GSM and CDMA.

**B. Profile Mode Control**

An application is used in which the profile mode will change automatically using SMS command. Audio Manager provides access to volume and ringer mode control.
C. Location Based Service

Location based service shows the movement and usage of physical assets and the exact location of your assets in near real time. If the phone is connected to the GPS, the GPS on the phone sends the location based on 10m distance.

D. Auto SMS Generation

According to the user requirement, an automatic message will be generated and sent to required number.

IV. EXPERIMENTAL STUDY

Adding new security features to protect the smart devices from privacy attacks is one of the most important tasks. The attack may be by physical or digital. For this, the system provides the solution by accessing the Android device from remote location using Simple...
SMS. By a SMS, the smart phones most of the features can be accessed like locking the device, getting the device current location last 5 calls records (dialled, received and missed), 3 SMS (sent and received). Switch between the profiles. The smart device has immediate response once the SMS from received with the phone keyword.

V. CONCLUSION

We have implemented this SMS application with a thought that new things are always being appreciated. As per the articles referenced here we do not think that such types of new features have been yet implemented in any other SMS software application. This software also provides an exited ways of using your mobile phones via SMS. In this application android phone acts as an intelligent device which performs many functions only by checking incoming text message format. The system may enhance with providing additional security via other instant message apps like WhatsApp, Telegram, Facebook Messenger and add more features like making calls from the remote devices.

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VI. REFERENCES


TO CITE THIS PAPER