

International Conference on Information Security & Privacy (ICISP2015), 11-12 December 2015,
Nagpur, INDIA

Cellular Network Fraud & Security ,Jamming Attack and Defenses

Dr. Rupa Hiremath ,Mr. Mallikarjun Malle, Mr. Pradip Patil

Director, Indira Institute Of Managemen(MCA), Pune 411033 India
Techenical Head, Pyramid Cyber Forensics & Security, Western India
Assistant Professor ,Indira Institute Of Managemen(MCA), Pune 411033 India

Abstract

Current era is the mobile era and nearly almost every person is having a cell phone and if we say that, cell phone count is more than number of human beings, then it wouldn't be considered as exaggeration. Technology has started to ruin human life at certain extent. It has also started making impact on them. Like every coin has a two side, technology is helping the human beings to lower down their efforts to achieve the target in optimum time and in some manner, it would also be harmful, if not used either properly or with proper ways by people. So, in this paper, we'll be focusing on mobile or cellular technology and mobile crimes, mobile crime investigation tools & techniques.

© 2016 The Authors. Published by Elsevier B.V. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/4.0/>).

Peer-review under responsibility of organizing committee of the ICISP2015

*Keywords:*spoofing;SMishing;BlueJacking ;Vishing;Morphing ;Jammar; CDR;

1. Introduction

What is Mobile / Cell Phone?

A Mobile / Cell Phone is an Electronic Device. It works on Radio signals & used for Personal Communication over remote basically mobile devices are divided in the two part

GSM(Global System for Mobile Communication)

CDMA(Code Division Multiple Access)

Following table shows the details how the handset identity and subscriber identity or call authorization will be done in GSM or CDMA mobile devices.

	GSM	CDMA
Handset Identity / Serial Number	IMEI	ESN
Subscriber Identity	IMSI	MIN

Author name / Procedia Computer Science00 (2015) 000–000

Description of the table as follows.

IMEI – International Mobile Equipment Identity

15 Digit Code, Identity of a Mobile Handset

Unique Identification Code of a Mobile Handset

Also known as Serial Number of Handset

Type *#06# to view IMEI of your Handset

ESN - Electronic Serial Number

11 Digit Unique Code

Identification of CDMA Mobile Handset / Serial Number of a CDMA Mobile Handset

And mobile subscriber identity will be done by the

IMSI - International Mobile Subscriber Identity

Unique 15 /17 / 19 /20 digit code that is attached to every SIM (Subscriber Identification Module).



Fig 1 IMSI

MIN - Mobile Identification Number

10 digit number used as CDMA Subscribers Identity

1.1. Services

Mobile devices also provide the different types of services like

- **SMS – Short Messaging Service**

Also Known as Text messaging. We can send message in Text. Cheap & Fast Communication

- **MMS – Multimedia Messaging Service**

Advanced version of SMS through which we can send Audio, Video, Pictures, Documents etc

- **GPRS - General Packet Radio Service**

By activating GPRS Service, we can access Internet on Mobile phone.

Offers High speed internet (up to 115kbps) service on Mobile phones

You can surf internet on GPRS enabled mobile handsets

Download English Version:

<https://daneshyari.com/en/article/486999>

Download Persian Version:

<https://daneshyari.com/article/486999>

[Daneshyari.com](https://daneshyari.com)