

## LAB MANUAL # 10

### **STUDY A GSM MOBILE COMMUNICATION NETWORK STRUCTURE**

#### Cellular Generations

##### **First Generation - 1G**

- Advanced Mobile Phone Service (AMPS)
  - US trials 1978; deployed in Japan ('79) & US ('83) in the 300 MHz band
  - Still widely used in many parts of the world including Pakistan
- Nordic Mobile Telephony (NMT)
  - Sweden, Norway, Denmark & Finland
  - Launched 1981; now largely retired
  - 450 MHz; later at 900 MHz (NMT900)
- Total Access Communications System (TACS)
  - British design, similar to AMPS; deployed 1985
  - Some TACS-900 systems still in use in Europe

##### **Second Generation - 2G**

- Digital systems
- Increased capacity
- Speech compression, digital signal processing
- Utilize and extend "Intelligent Network" concepts
- Improve fraud prevention
- Add new services
- There is a wide diversity of 2G systems
  - IS-136 North American TDMA, PDC (Japan)
  - PHS
  - IS-95 CDMA (CDMA One)
  - GSM
  - At present, GSM is the most widely used cellular technology.

#### Cellular System Definition

In a cellular system, the covering area of an operator is divided into cells. A cell corresponds to the covering area of one transmitter or a small collection of transmitters. The size of a cell is determined by the transmitter's power.

The concept of cellular systems is the use of low power transmitters in order to enable the efficient reuse of the frequencies. In fact, if the transmitters used are very powerful, the frequencies cannot be reused for hundreds of kilometers as they are limited to the covering area of the transmitter.

#### **The Cell**

- Cellular Radio involves dividing a large service area into regions called "cells."
- Each cell has the equipment to switch, transmit and receive calls.
- Cells - Reduce the need of High powered transmission
- Cells - Conventionally regarded as being hexagonal, but in reality they are irregularly shaped.

# Lab Manual For 10

**CH Cherryholmes**



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