

Lecture #6 Mobility Management in Wireless Network

1. What are the categories of Mobility?

- ◆ Radio Mobility - deals with the signal handoff / handover process
- ◆ Network Mobility - deals with the mobile location management

2. Define PLMN (Public Land Mobile Network)

It is an integrated service digital cellular network providing wireless access for mobile subscribers to other network services.

3. What are the functions of Mobility Management System?

- ♣ Automatic Roaming
- ♣ Authentication
- ♣ Intersystem Handoff

4. What are the types of Mobile Registration?

1. Distance based registration
2. Geographic based registration
3. Parameter change registration
4. Periodic based registration
5. Power-down based registration
6. Power-up based registration
7. Timer based registration

5. What is meant by handoff / handover signal?

As the mobile moves from one cell area to another, an active cell must undergo a switch from one channel to another. This process is called as handover process.

6. What are the techniques used in handoff process?

- ◆ Mobile controlled Handoff (MCHO)
- ◆ Network Controlled Handoff (NCHO)
- ◆ Mobile Assisted Handoff (MAHO)

7. What are the types available in handoff technique?

1. Hard Handoff
 - a. Inter Frequency
 - b. Intra Frequency
2. Soft Handoff
3. Softer Handoff

8. Mention some handoff Algorithms

- ♣ RSS (Radio Station Subsystem) Type
- ♣ RSS plus Threshold Type
- ♣ RSS plus Handoff Margin Type