Introduction to Wireless and Mobile Networking

Reading: Wireless System Design – Mobility Management

Hung-Yu Wei
National Taiwan University
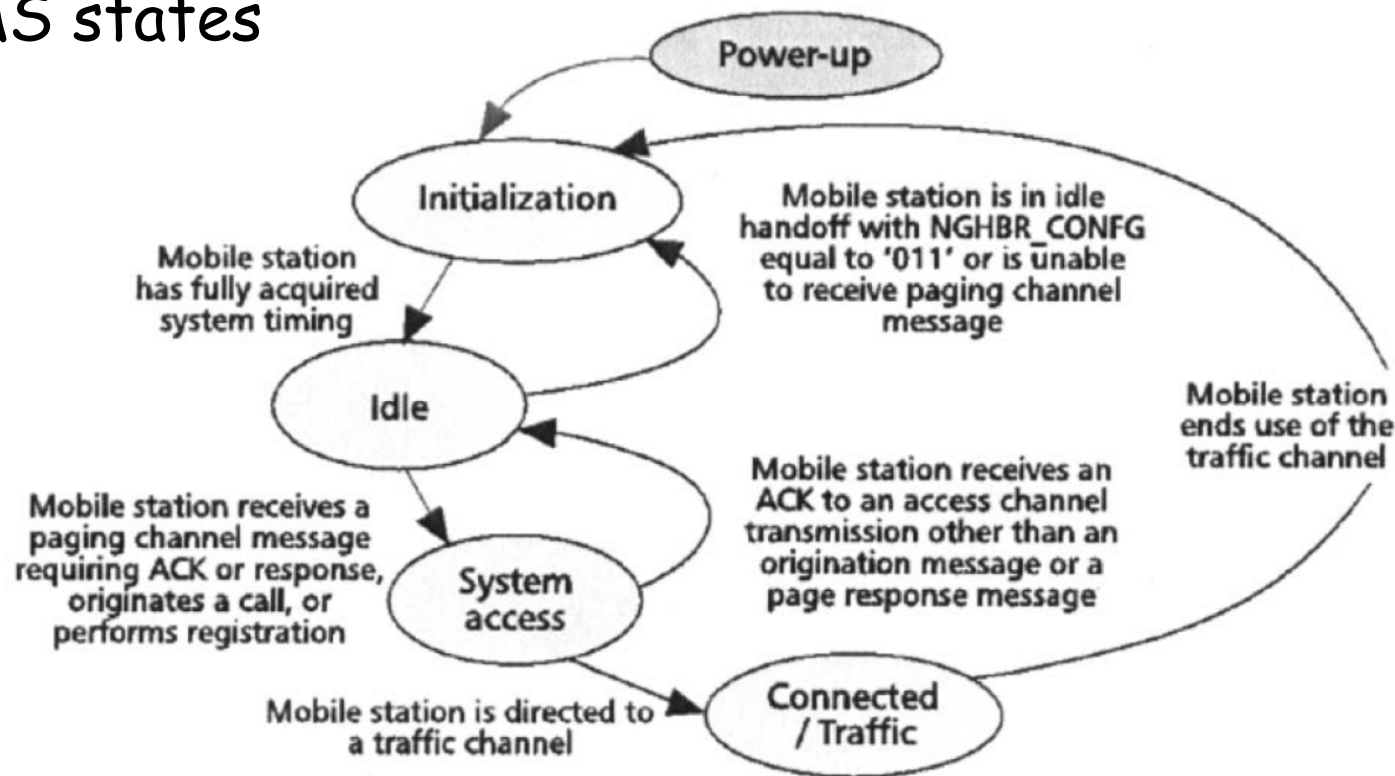
Mandatory Reading

- 1.3.2 Mobility Management
  - Some good wireless system design concepts

Registration

- Autonomous
  - Power up
  - Power down
  - Timer-based
  - Distance based
- Non-autonomous
  - Parameter change
  - Implicit
  - Ordered

Paging

- Paging is the process by which the network alerts the MS to an incoming call or message
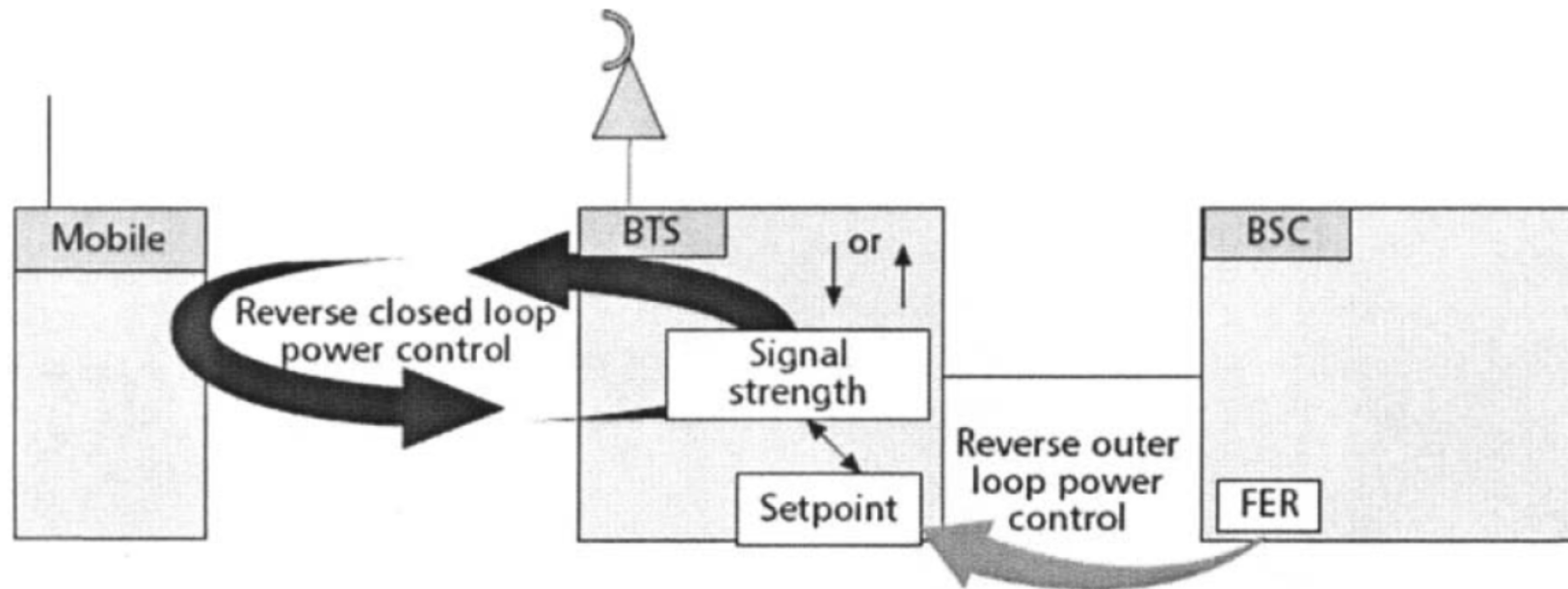- MS goes into idle state
  - MS states

Slotted mode

- Synchronization
  - Time
  - State

Admission Control

- Admission control determines when the MS gets access to the network based on the priority of the request compared to network resource availability
  - Noise
  - BS power
  - Codes
  - Frequency
  - Timeslots
  - Call processing resources

Power Control

- Uplink (reverse link)
- Downlink

Handoff/Handover

- Intra-technology
- Inter-technology