Mobile Ad Hoc Networks

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≡ Name	Lecture 7
☑ Review	☐

Manet

Infrastructure-based wireless network

- having infra
- Bs as bridge, mobile host comm with nearest bs
- Reliable but high setup cost

noinfra

- no BS
- Multi-hop
- Msg from source to dest need help

Application

- disaster recovery
- Vehicle
- ad hoc Meeting

Characteristics

- no centralized entity
- Network topology
  - Mobile as node

- Link form/broken w/ mobility

- Network topology change frequently & unpredictably

- Lack of symmetrical link - unidirectional link

- less reliable, energy-constraint

routing in MANETs

- Route discovery

- Packet forwarding

- Route maintenance

- multihop comm

- Layer 2-3

- Topology dynamic

- periodic update

- Proactive Protocols

- Reactive Protocols

Flooding

DSDV

AODV

DSR