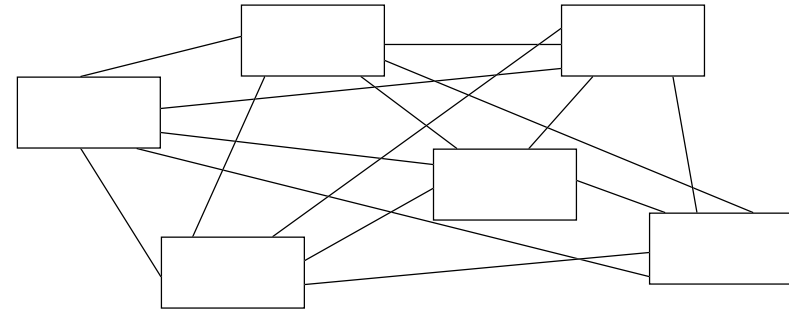


Other Network Topologies

- Fully connected networks
- Hubnet
- Satellite/Microwave networks
- Radio networks

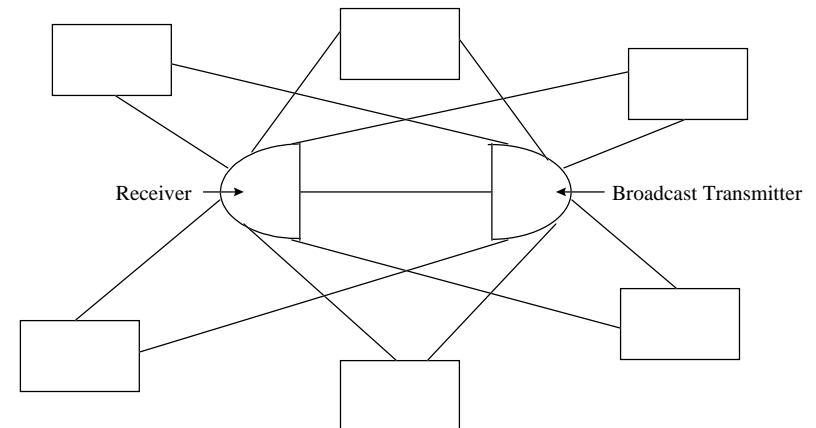
Fully Connected Network



Hubnet

- Hub in two parts (transmit and receive)
- All equipment connected to both parts
- Broadcast

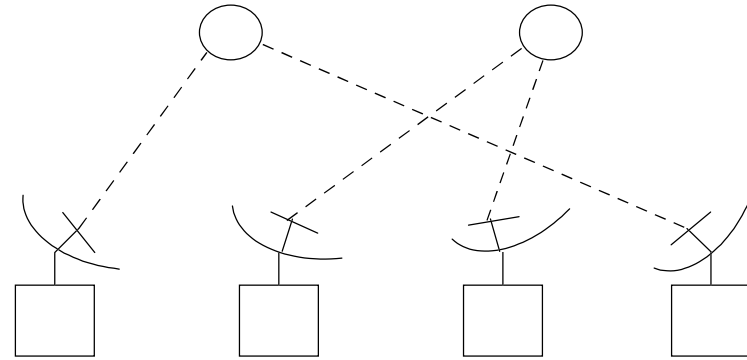
Hubnet



Satellite Networks

- Equipment connected by microwave beams
- Data modulated onto the microwave beam

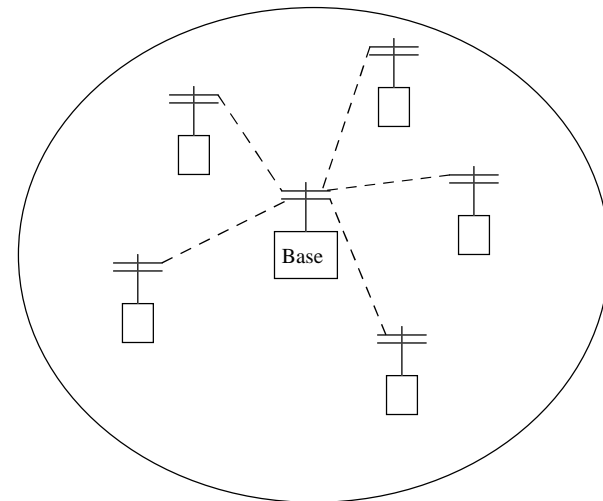
Satellite Network



Radio Networks

- Equipment connected by radio waves
- Data modulated onto radio waves

Radio Network



Media Access

- LAN users share common media
- Need to decide who has ‘right of way’

Carrier Sense Multiple Access (CSMA)

- 1 Look to see if the media is in use, if so back to 1
- 2 Transmit information
- 3 Back to 1

CSMA with Collision Detection (CSMA/CD)

- 1 Look to see if the media is in use, if so back to 1
- 2 Transmit data
- 3 Look to see if a collision has occurred, if so
transmit JAM and delay
- 4 Go back to 1

Token Passing

- Logical ring links all DTEs connected to media
- Token passed around the ring
- Kept by a DTE that wishes to transmit data
- Token passed on when data transmitted

Slotted Systems

- Ring initialised to contain a fixed no. of bits
- Ring split into slots of a fixed no. of bits
- DTEs wait for an empty slot and put data in for transmission