



SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107

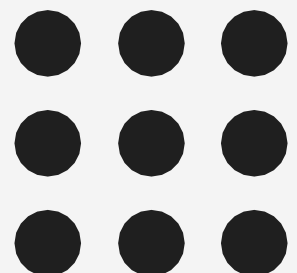
An Autonomous Institution

Accredited by NAAC-UGC with 'A' Grade

Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

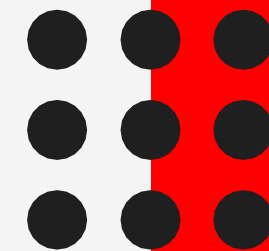
19EC701 - ADHOC NETWORKS

Unit -1 – ADHOC FUNDAMENTALS





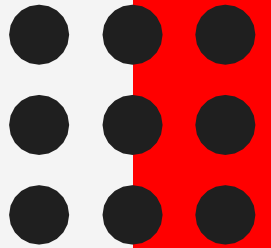
Issues and challenges in adhoc network



1. Scalability
2. Quality of service
3. Client server model shift
4. Security
5. Interoperation with the Internet
6. Energy conservation
7. Node cooperation
8. Interoperation.



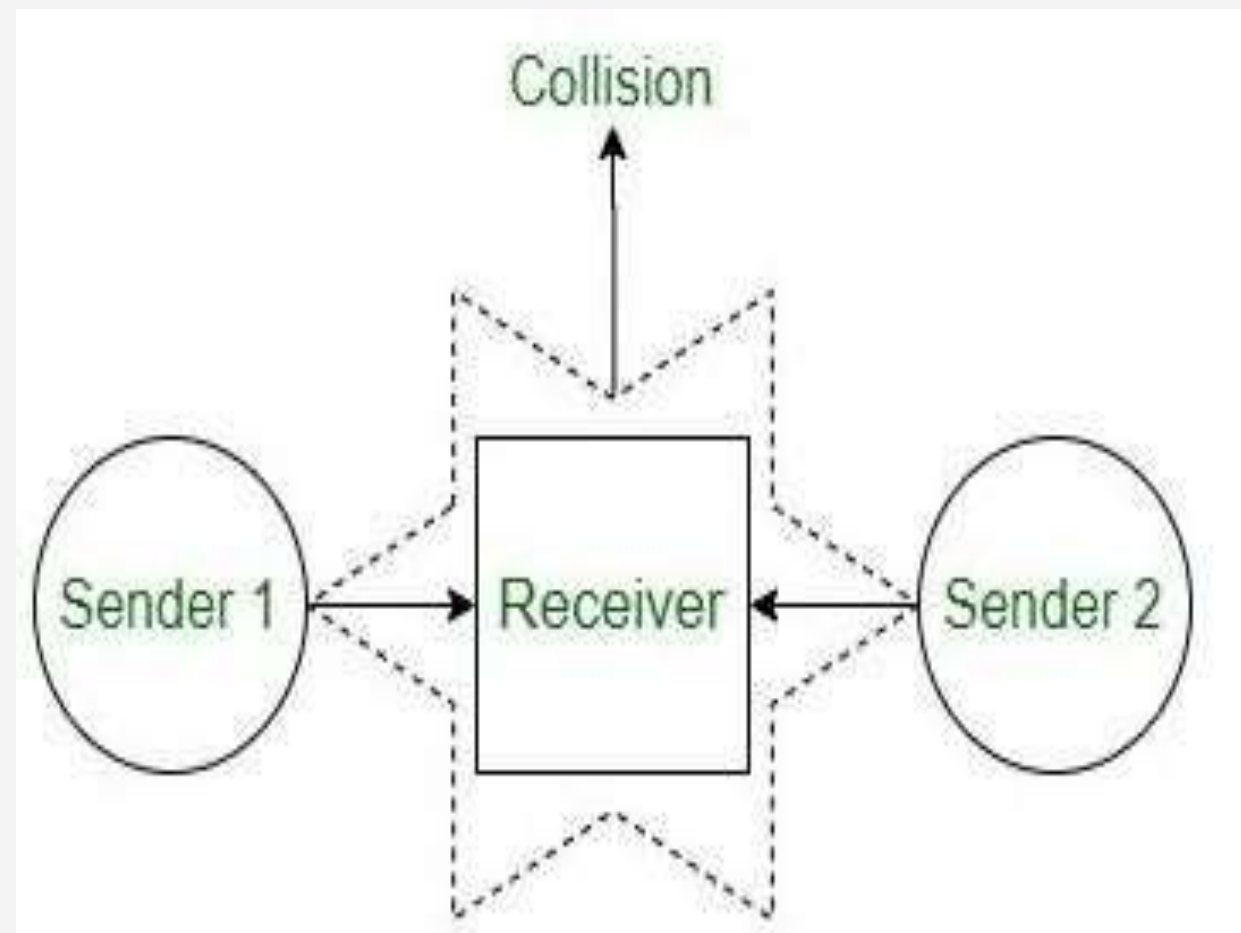
Issues and challenges in adhoc network



- Bandwidth-constrained, variable capacity links
 - Wireless links have typically lower capacity than wired
 - Realized throughput of wireless communication is lower than the radio's maximum transmission rate
 - Link capacity is relatively low => congestion is common (collisions occurs frequently as application demand approaches link capacity)
- Energy-constrained operation
 - Nodes in ad hoc network may rely on batteries or other limited energy sources
 - Energy conservation may be a dominant design factor

Issues and challenges in adhoc network

- Limited physical security
 - More prone to physical security threats than wired networks
 - Incl. stealing mobile ad hoc devices
 - Many attacks, incl. Eavesdropping, spoofing, and DoS attacks are easier
 - Hidden-node problem creates collision if two device try to communicate with same receiver.
- Quality of Service
- Scalability problems
 - As networks get large

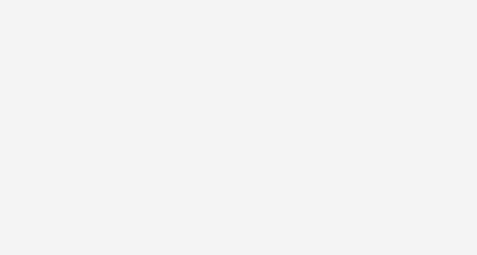




Assessment

List some of the issues of Adhoc Network

1. Scalability
2. Quality of service
3. Client server model shift
4. Security
5. Interoperation with the Internet
6. Energy conservation
7. Node cooperation
8. Interoperation.



THANK YOU