

SNS COLLEGE OF ENGINEERING

An Autonomous Institution

19EC701 - ADHOC NETWORKS

9/10/2022

19EC701 / Issues and Challenges in Ad hoc network / R.Saranya / AP / ECE / SNSCE



Kurumbapalayam(Po), Coimbatore – 641 107

- Accredited by NAAC-UGC with 'A' Grade
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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



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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

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