



FACULTY OF ENGINEERING & TECHNOLOGY

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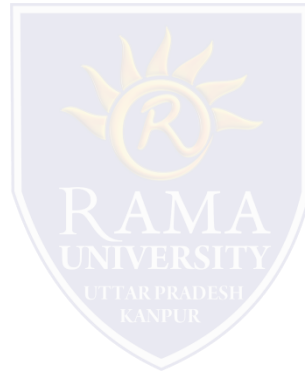
Department of Computer Science & Engineering

Topics Covered

ad-hoc network

Mobile Ad hoc Network (MANET)

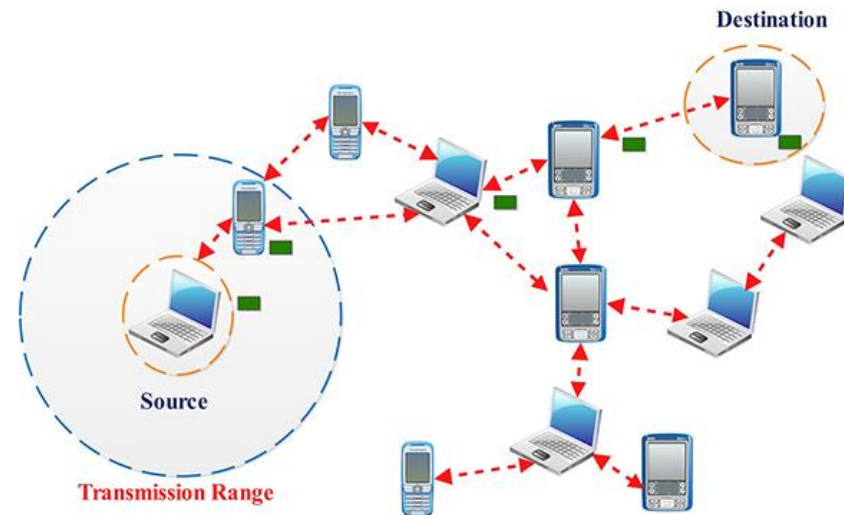
Classifications of Ad Hoc Networks



ad-hoc network

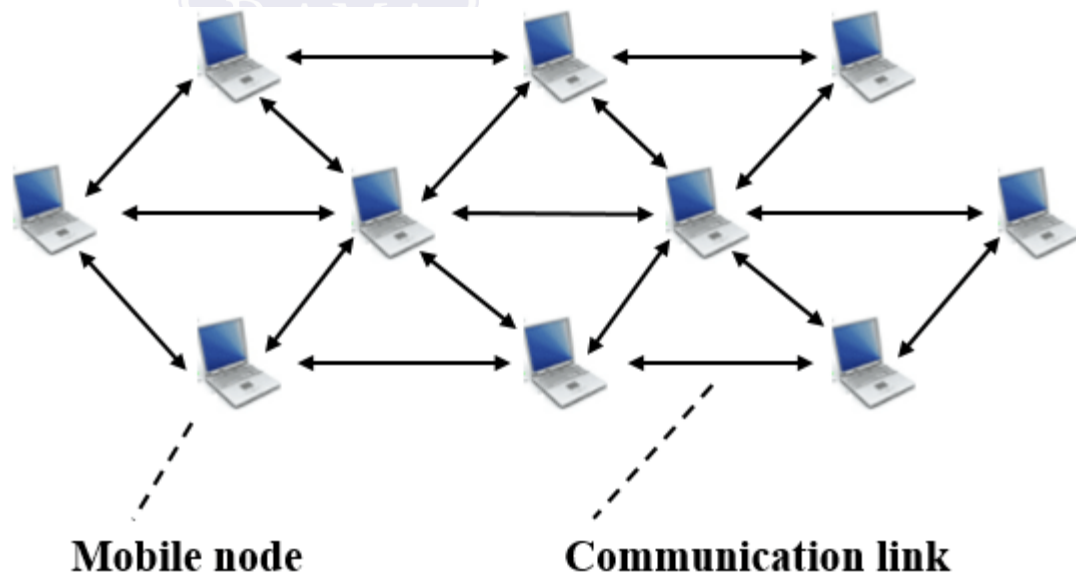
An ad hoc network is one that is spontaneously formed when devices connect and communicate with each other. The term ad hoc is a Latin word that literally means "for this," implying improvised or impromptu.

Ad hoc networks are mostly wireless local area networks (LANs). The devices communicate with each other directly instead of relying on a base station or access points as in wireless LANs for data transfer co-ordination. Each device participates in routing activity, by determining the route using the routing algorithm and forwarding data to other devices via this route.



Mobile Ad hoc Network (MANET)

MANET stands for Mobile adhoc Network also called as wireless adhoc network or adhoc wireless network that usually has a routable networking environment on top of a Link Layer ad hoc network.. They consist of set of mobile nodes connected wirelessly in a self configured, self healing network without having a fixed infrastructure. MANET nodes are free to move randomly as the network topology changes frequently. Each node behaves as a router as they forward traffic to other specified node in the network.



Classifications of Ad Hoc Networks

Ad hoc networks can be classified into several applications. The most prominent ad hoc networks are illustrated in the diagram below –

