



# Review on MANET: Characteristics, Challenges, Imperatives and Routing Protocols

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*Abstract- Nowadays, with the rapid propagation of lightweight wireless devices such as laptops, wireless telephones, and wireless sensors, the potential and importance of nomadic computing particularly mobile ad hoc networking have become apparent. A mobile ad hoc network, or MANET, is an infrastructure less temporary network, formed by a set of wireless mobile hosts that has no central administration and establish their own network dynamically. Moreover, the network's environment has some features that add extra complications, such as the frequent changes in the topology caused by nodes mobility, as well as the unreliability, resource constraint and the bandwidth limitation of wireless channels. A number of protocols have been proposed in the literature for efficient routing in MANET. Due to the dynamic topology of Mobile Adhoc Network, this paper mainly concentrates on different routing techniques which are the most challenging issue in today's scenario. Different strategies have been proposed for efficient routing which claimed to provide improved performance. There are different routing protocols proposed for MANETs which makes it quite difficult to determine which protocol is suitable for different network conditions. This paper gives proposal of different strategies by provides an overview of different routing protocols proposed in literature.*

**Keywords:** MANET, Routing Protocol, Dynamic Topology, Mobility, Performance

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