

Secured & impregnable Cluster based Efficient routing Scheme for MANET

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Abstract — an ad-hoc network is a multi-hop wireless network where all lumps cooperatively uphold network connectivity deprived of a consolidated substructure. If there is an amendment in node locations dynamically, it is called a mobile ad-hoc network (MANET). Meanwhile the network topology alterations frequently, effectual adaptive steering protocols such as AODV, DSR are used. As the network is wireless, security becomes the major issue in Mobile Ad hoc Networks. Some of the attacks such as modification, fabrication, impersonation and denial of service attacks are due to misbehavior of malicious nodes, which disrupts the transmission. In this paper we proposed a cluster based efficient secure AODV routing protocol. Our proposed routing algorithm will provide a better level of security and performance than existing works. The results parameters will show in terms of improvement of the network performance, in terms of overhead, and end to end delay to the secure AODV routing protocol.

*Keywords —*MANET, Efficient Routing, AODV, Network Security, Network Lifetime, Cluster Network, Wireless Network.