

Abstract – the planned scheme highlights one of the schematic modeling for enhancing the cumulative network lifetime of MANET using power efficient AODV. MANET system is always associated with the design constraint from unwanted power drainage during communication. The proposed system considers the intermediate mobile nodes as vital factor which estimates the current mean power of the cumulative network as comparison threshold in order to evaluate the response of route request message along with impact of the proposed system towards the routing performances. Experimented in NS2, the proposed system shows optimal throughputs which can be definitely used for optimizing the energy on overloaded nodes in MANET and enhance the cumulative network lifetime extensively.

Key Words – component; Mobile Adhoc Network, Energy, Routing protocol, AODV.