Energy Consumption Analysis of AODV and DSR routing protocols in Mobile Ad Hoc Network

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Abstract

MANET (Mobile Ad hoc Network) is self organizing and self configuration and self controlled network without the need of any base station AP(Access Point). Mobility of nodes in MANET causes ever changing topologies. As one of constraints in MANET is limited battery resources, It is important to know energy efficiency of routing protocols to limit the power consumption, prolong the battery life and to improve the robustness of the system. This paper focuses on energy consumption metric Total Energy Consumed, Total Remaining Energy and Energy Consumption per successful data delivery (ECSDD) in some of the routing protocols in MANET such as DSR, AODV by varying pause time, node velocity and packet sending rate and area of network. Simulation is done by using NS-2.