



RESEARCH ARTICLE

Performance Evaluation of DSR and LAR Routing Protocols with MAC Layer in MANET's

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Abstract— *In the past two decades, we have seen a rapid development in the area of mobile computing and communications due to the explosion of inexpensive, broadly available wireless devices. A mobile ad hoc network is an independent collection of mobile devices that communicate with each other over wireless links and cooperate in a distributed manner in order to provide the necessary network functionality in the absence of a fixed infrastructure. Each device in a MANET is free to move independently in any direction, and will therefore change its links to other devices frequently. In this paper we have done the performance evolution of DSR and LAR routing protocols for MAC layer in MANETs with varying network size. Number of simulation scenarios was carried out by using Glomosim-2.03 with the simulation metrics like Throughput, End-to-End Delay and Packer Delivery Ratio. From simulation results we found that both 802.11 and CSMA is suitable for DSR where as only 802.11 is suitable for LAR.*

Keywords— *AODV; LAR; CSMA; GloMoSim; PDR*

Full Text: <http://www.ijcsmc.com/docs/papers/November2013/V2I11201367.pdf>