PERFORMANCE ANALYSIS OF REACTIVE & PROACTIVE ROUTING PROTOCOLS FOR VEHICULAR ADHOC –NETWORKS WITH VARYING SPEED OF NODES

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ABSTRACT

The main concern for establishment of communication between vehicles is its very high speed as compared to other MANET Technologies as well as the Density in URBAN areas. To overcome these problems the communication nodes must have channels with high frequency and free bandwidth. Still there are many limitations and drawbacks for successful communication among the vehicles thus this technology is demanding more work on the best methods and the protocols for the communication in vehicular ad-hoc network because the infrastructure in VANET scenario changes rapidly. In this paper nodes have been used as vehicles and based on comparison between two mostly used routing protocols Ad hoc on demand distance Vector routing protocol (AODV) and Dynamic source routing protocol (DSR) in VANET scenario with simulation time of 10sec, 20 sec, 30sec, 40sec and 50sec with 44 nodes with different mobility which are 20m/sec, 40m/sec and 60m/sec and performance has been calculated on the basis of Residual energy and Routing overhead with different environment. The tool chosen for this work is NETWORK SIMULATOR (NS2).

KEYWORDS: VANET, AODV, DSR, Network Simulator-2.35 (NS-2.35)