



RESEARCH ARTICLE

Quality of Service Routing Protocol for Mobile Ad hoc Network

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Abstract— *The wireless Ad-Hoc network is infrastructure less with nodes in the network area are randomly moving and communicating between nodes while roaming. In this paper we propose the TDMA Based Energy Efficient Quality of Service Routing Protocol (EEQOSRP). The network scenario is established by considering 1000 X 1000 m² area and deploying randomly moving nodes using Tool Command Language (TCL). The resource reservation is used to decompose the total simulation time of network into smaller time slots depending upon number of nodes in the network using TDMA technique. The route is established between Source and Destination node using AODV with QoS and Multi hop routing technique. The data packets are scheduled at Source node by assigning priority and the path is established between nodes using shortest path and implemented using C++. It is observed that the values of Energy Consumption, Packet Delivery Ratio, End to End Delay and Throughput are improved Compared to Existing algorithm.*

Key Terms: - *Time Division Multiple Access (TDMA), high load traffic, Ad-Hoc On-demand Distance Vector (AODV) Quality of Service Technique (QoS), Wireless Ad-hoc Networks (WANs).*
