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Performance Enhancement of Dynamic Source Routing

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Abstract - It has been observed from literature that a Mobile Ad hoc Network (MANET) consists of a collection of mobile nodes. As Manets are gaining popularity day-by-day, new developments in the area of real time and multimedia applications are rising as well. Such application require Quality of Service (QoS) evolving in terms of constraints in terms of bandwidth, end- to- end- delay jitter and energy. QoS provisioning for MANET can be achieved over different layers starting from the physical layer up to the application layer. This paper mainly looks at the problem of QoS provisioning in the perception of aware Dynamic Source Routing (DSR) protocol using Simulated Annealing called SADSR . Simulation results show that the proposed protocol has better performance than DSR in terms of end-at way to-end delay, packet delivery ratio and throughput .