INVESTIGATION INTO QOS ROUTING PROTOCOL OPTIMIZATION USING GENETIC ALOGRITHM IN MANET

*Ritu **Swati Gupta

Department Of Computer Science And Engineering

Bahra Institute Of Management And Techology, V.P.O. Chidana, Gohana

(Affiliated To Dcrust, Murthal-131039, Sonipat)

Abstract: Mobile Ad-hoc Networks are a collection of two or more devices equipped with wireless communications and networking capability. These devices can communication with other nodes that immediately within their radio range or one that is outside their radio range. Research on Mobile Ad Hoc Networks has been ongoing for decades. The history of mobile ad hoc networks can be traced back to the Defense Advanced Research Project Agency (DAPRPA) packet radio networks (PRNet), which evolved into the survivable adaptive radio networks (SURAD) program. For the later, the nodes should deploy an intermediate node to be the router to route the packet from the source toward the destination. The Mobile Ad-hoc Networks do not have gateway, every node can act as the gateway.

Keywords: DSDV, HSR, WRP, ZRP, AODV, DSR, TORA

I. Introduction

Wireless networks have become increasingly popular in the computing and communication industries, since their emergence in the '70s. This is predominantly true within the past decade, which has seen wireless networks evolve with the purpose of enabling better mobility. There are two variations of mobile wireless networks [3] - the first is known as infrastructure network, i.e., a network with fixed and wired gateways and the second is infrastructure-less mobile network, better known as an ad hoc network. Wireless mobile ad hoc networks have no fixed routers; hence, all nodes are capable of movement and can be connected dynamically in an arbitrary manner. Meanwhile, nodes of these networks function as routers which discover and maintain routes to other nodes in the network.

II. MANET (Mobile Ad-hoc Network)

A mobile ad-hoc network (MANET) is a self-configuring infrastructure less network of mobile devices connected by wireless [2]. It is a set of wireless devices called wireless nodes, which dynamically connect and transfer information. Each node in a MANET is free to move independently in any direction, and will therefore change its links to other devices frequently;

Note : For Complete paper/article please contact us info@jrps.in

Please don't forget to mention reference number , volume number, issue number, name of the authors and title of the paper