Abstract

An Ad hoc wireless network consists of mobile terminals communicating with each other without the help of traditional infrastructure for communication. Optimized Link State Protocol (OLSR) is a proactive routing protocol, wherein routes are discovered and updated continuously and available when required. Hello messages are generated by each node to seek information about its neighbor's. If a neighboring node does not respond for specified number of hello messages specified by the neighborhood hold time, the node assumes the neighbor is not in its range. In this paper it is proposed to evaluate OLSR routing protocol in a random mobility network with different neighborhood hold time intervals. The throughput and delivery ratio are also studied to evaluate the efficiency of the routing protocol for multimedia loads. Investigations are specifically carried out for G. 711 Codec based packets and compared with AODV routing protocol.

References

Performance of Multimedia Traffic in OLSR Routing Protocol with Weighted Fair Queuing

9th Malaysia International Conference on Communications Kuala Lumpur Malaysia.
- Tomasz Ciszkowski, Zbigniew Kotulska, "ANAP: Anonymous Authentication Protocol in Mobile Ad hoc Networks";
- CHING-CHUAN CHIANG, HSIAO-KUANG WU, WINSTON LIU, MARIO GERLA Routing in Clustered Multihop, Mobile Wireless Networks with Fading Channel, IEEE Singapore International Conference on Networks, SICON, pp. 197-211, Singapore, 16-17 April 1997, IEEE
- C. PERKINS, E. ROYER AND S. DAS Ad hoc On-demand Distance Vector (AODV) Routing, RFC 3561
- Ying Ge, Thomas Kunz and Louise Lamont "Quality of Service Routing in Ad-Hoc Networks Using OLSR." Proceeding of the 36th Hawaii International Conference on System Science (HICSS), pp. 03

Index Terms
Keywords