Abstract

In this paper we investigate a new technique based on SBPN for congestion avoidance. In this technique we proposed a new algorithm based on WFQ for improving the Qos for multimedia traffic in MANET. In traditional algorithm used SBPN-FIFO in which data transmitted in which order its received . In SBPN-FIFO all packets are treated equally by placed into single queue that's why short packets have to wait long time. In proposed algorithm SBPN-WFQ where data handle with priority and every flow have opportunity to send data in specific time. This method reorders or discard packet according to expiry time. The main advantage of SBPN-WFQ it only drops packets only of aggressive flow. The study has carried on some issues like throughput, packet delivery ratio (PDF), packet drop. Simulation has been performed using NS-2. 34. The simulation results show that our proposed algorithm will present better network performance in throughput, packet delivery fraction and number of dropped packets.

References

- Bhabani Sankar Gouda, A. K. ,"A Comprehensive Performance Analysis of
Energy Efficient Routing Protocols in different traffic based Mobile Ad-hoc Networks

C. Ram Murthy, B. S. Manoj Ad Hoc Wireless Networks. Pearson Education

David D. Clark, Wenjia Fang, "Explicit Allocation of Best-Effort Packet Delivery Service"; IEEE 2012


Guillermo Diaz Delgado, Victor Carrascal Frías, Mónica Aguilar Igartua "Video-streaming Transmission with QOS over Cross-Layered Ad hoc Networks"; 2012.


I. A. McDonald, R. Nelson "Application-level QOS: improving video conferencing quality through sending the best packet next"; vol. 4, No. 1, IPT 2011

Iftikhar Ahmad1, Humaira Jabeen , Faisal Riaz "Improved quality of service protocol for real time traffic in MANETS"; IJCN, Vol. 5, No. 4, 2013.

Kavita tandel, Rachana shelat, "Video streaming issues and techniques over MANETS"; Vol. 3, Issue 1, Feb 2013

LI LA Yuan, LI ChunLin "QOS multicast routing protocol in hierarchical wireless MANETs"; SPRINGER 2011.


Rohit, Himanshu Sharma "Performance measurement and analysis of video conferencing"; IJCA, vol. 69-no. 16, May 2013


Index Terms

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