Abstract

In Mobile ad hoc networks (MANET), Providing QoS guarantee is difficult task due to unreliable Wireless nature of Link, Mobility, Lacking of Centralized Coordination and Channel contention. For Real-time applications (such as video, audio) QoS is More important on transmissions. Many efforts are put on ad hoc networks at both the MAC and routing layers Meanwhile, QoS aware issues are considered in both MAC and routing layers for ad hoc networks. However QoS can ensure by Admission control protocols and reservation mechanisms. This paper aims to investigate factors affecting QoS, admission control protocols, QoS routing protocols, reservation mechanisms, and MAC Layer QoS Supports. This is also aims to provide deep view of QoS in MANET Of current and Future trends.
MAC and Routing Layer Supports for QoS in MANET: A Survey

Issue/May 2002
- Giuseppe bianchi, Performance analysis of the IEEE 802. 11 distributed Coordination function, IEEE journal on selected areas in communications, vol. 18, no. 3, March 2000 535
- Mustafa Ergen and Pravin Varaiya, Life Fellow, Formulation of Distributed Coordination Functionof IEEE 802. 11 for Asynchronous Networks: Mixed Data Rate and Packet Size, IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, VOL. 57, NO. 1, JANUARY 2008
- Inanc Inan, Feyza Keceli, and Ender Ayanoglu, Performance Analysis of the IEEE 802. 11e Enhanced Distributed Coordination Function using Cycle Time Approach.
  - Zhigang Che1, Zhihui Ge, Ming Zhaos “A Load-based Queue Scheduling Algorithm for MANET,” Journal of Communication and Computer, ISSN1548-7709, USA, Aug. 2006, Volume 3, No. 8 (Serial No. 21).
  - Sridhar K N, Mun Choon Chan. Channel-aware Packet Scheduling for MANETs. 2008 IEEE, 978-1-4244-2100-8

Index Terms

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