Performance Evaluation of IEEE 802.11e MAC layer Protocols

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Under Real-Time Applications (Real-Time Traffic) | This Book is a Performance Evolution of two wireless Protocols (MAC Protocols), The first is the Wireless IEEE-802.11e Enhanced Distributed Channel Access (EDCA) protocol which supports the Quality of Service (QoS) and the other is the Wireless IEEE-802.11 Distributed Coordination Function (DCF) Protocol which does not support Quality of Service. Two Types of wireless Configurations were used, the first is Mobile ad-hoc wireless network and the other is the Access point (AP) wireless network. An Environment of variable number of nodes was established, certain nodes were specified as a transmitted nodes and the rest considered as a receiving nodes. NS2 (Network Simulator version 2) was used to achieve the simulation part of the project, a TCL (Tool Control Language) scripting language and NAM (Network Animator) were used also. The comparisons of results are made in terms of Packet loss, Packet Delivery, and Packet Turn Around Time. A conclusion was drawn from the results to approve that EDCA protocol outperforms DCF protocol. This book can be considered as a complete practical book, it will guide you to achieve a complete wireless ad hoc simulation projects. | Format:...

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