Abstract

With the improvement of wireless network, quality of service has become a major research area. Researchers have proposed many co-ordination functions for improvement of service quality. In our study, we have compared the different characteristics and properties of PCF, DCF and Enhanced DCF to evaluate the performance of wireless network. We used OPNET IT GURU Academic Edition simulator for perform simulations. Protocols are tested under the realistic conditions to perform evaluation of the coordination functions. Various parameters such as Delay, Data Dropped, Throughput, Load, Retransmission Attempts Traffic Sent and Traffic Received in wireless network are tested to study the quality in various environments using OPNET network simulator. Different parameters are considered to study the impact of various co-ordination functions for wireless networks. In this paper we have studied the results obtained, and recommend the best possible protocol that can provide high QoS under respective network traffic conditions.


**Index Terms**

Computer Science  Wireless

**Keywords**

PCF, DCF, EDCF, Data Dropped, Throughput, Traffic Sent, Traffic Received, Load, Retransmission Attempts.