

ABSTRACT

Wireless Local Area Network (WLAN) is a local computer network system that implemented in a building by using radio transmission media. According to standard IEEE 802.11, each station and access point of wireless LAN have to implement MAC (Medium Access Control) layer service into a network. Before transmit the frame, for the first, MAC coordination have to get access to network by using DCF (Distributed Coordination Function) access method which use CSMA/CA protocol, or PCF (Point Coordination Function) access method which use Priority-Based Access protocol.

This final project will analyze the comparison of performance between DCF access method and PCF access method at WLAN. Analysis is done to throughput, probability of collision, and average of delay by using an simulation program which applying the scenario that based on variation of the amount of terminal and length of payload as according to standard IEEE 802.11.

From the result of analysis, obtained that for WLAN with amount of terminal and average of payload was sent are small, DCF access method better than PCF access method, on the contrary, if the ammount of terminal and average of payload was sent are bigger, PCF access method better than DCF access method.