Objective

This lab reinforces the details of the IEEE802.11 wireless protocol and includes experience with wireless performance metrics.

Details

Lab 2 directs that you create four duplicate scenarios: DCF, DCF_FRAG, DCF_PCF, and DCF_PCF_FRAG. For this CS513/ECE506 assignment you are to replace the DCF_PCF_FRAG scenario with a DCF_RTS scenario to study the impact of using RTS/CTS on IEEE802.11 performance.

In addition to the five statistics chosen as results on page 14, select the Dropped Data Packets (packets/sec) statistic for all four scenarios.

Complete exercises 1-3 and 5. Namely you should replace exercise 4 with analysis of the DCF_RTS scenario in exercises 2, 3 and 5 and analysis of a graph that compares Dropped Data Packets (packets/sec) for the four scenarios simulated.