Abstract

The increasing use and implementation in terms of scope and scale in Wireless Sensor Network can lead to congestion. Congestion could make latency value increase. This problem can be done by imposing a queue mechanism called Active Queue Mechanism.

This Final Project explained about comparative performance AQM Algorithm, RED and CoDel on Wireless Sensor Networks. Testbeds are used Network Simulator 2 and comparison results are used are value of throughput, latency, packet loss, and queue length.

From the results, throughput values that are obtained are same. CoDel has better value in terms of latency, energy and queue length, RED has less packet loss value. CoDel is worthy to serve as AQM on Wireless Sensor Network because of better latency value for real-time monitoring.

Keyword: Wireless Sensor Network, Queue, Active Queue Mangement, RED, CoDel