Abstract

Weighted Random Early detection (WRED) is a mechanism that is responsible to avoid congestion in a network, by sensing the movement of nodes, on the basis of analyzed value for multiple queues of data packets. Numbers of devices always try to transmit data packets for certain time span, there would be an issue of consumed bandwidth, delay, media access delay, load in a network; and these factors can conclude to an increased queuing delay, decreased
throughput, long queues, increased number of retransmissions for particular device in a network. So an optimized WRED is one of the improved mechanisms that can contribute to an increased performance of devices in a network for any communication established. To attain a comparative analysis of performance OPNET IT GURU EDUCATIONAL VERSION 14.5 Modeler is used.

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**Index Terms**

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**Keywords**

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