Performance Evaluation of Mobile Ad Hoc Networks with Reactive and Proactive Routing Protocols and Mobility Models

Abstract

Mobile Ad hoc Network is a collection of wireless mobile nodes dynamically forming a temporary network without the aid of any established infrastructure or centralized administration. Routing protocols in mobile ad hoc network helps node to send and receive packets. In this paper we are doing study of AODV, DSR (Reactive), and OLSR, DSDV, TORA (Proactive) protocols based on various mobility models [3] such as RPGM, CMM and RWP. In this paper we evaluate performance of five types of routing protocols (AODV, DSR, OLSR, DSDV and TORA) based on packet delivery ratio, average end to end delay, routing overhead and throughput. In this paper we will analyze and compare the performance of reactive and proactive routing protocols under different mobility models using NS-2 simulator in the area of 700 x 700 m².
References

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