

Evaluation of AODV and OLSR protocols on Ad-hoc networks using NS2 software

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Abstract: In this study, we selected the topic of evaluating the performance of two important data transmission protocols - AODV (Ad hoc On-demand Distance Vector) and OLSR (Optimized Link State Routing) in wireless mobile ad-hoc networks. The main objective is to determine the advantages, disadvantages, adaptability, and efficiency of both protocols when deployed on an Ad-hoc network model using NS2 software. The research methodology includes both theoretical analysis and experimentation, aiming to provide a comprehensive view of the operation and performance of each protocol under different conditions. These results not only contribute to a better understanding of mobile network technology but also play an important role in designing data transmission systems in Ad-hoc network environments.

Keywords: AODV protocol, OLSR protocol, Ad-hoc network, NS2