Comparison and evaluation of two routing protocols DSDV and OLSR in Ad-hoc networks

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Abstract: In this topic, we focus on comparing and evaluating the effectiveness of two popular routing protocols, DSDV (Dynamic Source Distance Vector) and OLSR (Optimized Link State Routing), in wireless ad-hoc networks. The research context is based on real-world scenarios where mobile systems require efficient self-managing routing capabilities to ensure quality of service. The objective of the topic is to determine which routing protocol is more suitable under specific network conditions by applying both theoretical and experimental methods. The expected results from this study will provide a scientific basis for selecting the appropriate routing protocol, contributing to improving the performance of wireless ad-hoc network systems.

Keywords: Ad-hoc routing, DSDV, OLSR, Mobile network performance