

Simulation, comparison, and performance evaluation of DSDV, AODV, and DSR protocols.

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Abstract: This topic focuses on simulating and comparing the performance of three mobile network protocols: DSDV (Destination Sequence Distance Vector), AODV (Ad hoc On-demand Distance Vector), and DSR (Dynamic Source Routing). The context of the topic arises from the practical need to evaluate and select appropriate protocols in wireless network systems. The objective of the research is to build a theoretical model and implement an application on a network simulation platform to evaluate the performance of each protocol based on factors such as delay, node density, and bandwidth capacity. Through this, the expected goal is to identify the most effective protocol for specific environments and contribute to the development of wireless network technology.

Keywords: DSDV, AODV, DSR protocols, mobile network simulation, performance evaluation