Abstract

We have analyzed performance of IARP, IERP and OSPFv2 routing protocols. The performance simulations on QualNet 5.0.2 simulator and performance of IARP, IERT and OSPFv2 routing protocols have been evaluated for varying node density (20, 40, 60, and 80) with varying speed (10, 20). The performance of these routing protocols has been analysed on the basis of performance metrics such as average end-to-end delay, average jitter and average throughput. It has been observed that IERP routing protocol outperform IARP and OSPFv2 in...
case of 20 nodes density in case of throughput. However, the IARP routing protocol clearly outperformed IERP and OSPFv2 routing protocols as the IARP routing protocol has shown the quite satisfactory results for average-end-to-end delay and average jitter in comparison of IERP and OSPFv2 routing protocols. Overall, the performance of all routing protocols simulated in this paper was highly affected with increasing node density and speed.

References


Index Terms

Computer Science Networks

Keywords

Manet Routing Protocols Performance Metrics