Ad hoc networks are characterized by dynamic topology caused by node mobility, multihop wireless connectivity and channel non deterministic behaviour (Interference, multipath, hidden and exposed node problem makes the wireless channel very difficult to predict). This behaviour of Ad hoc networks must be analyzed in detail as a result of pairing of the selected MAC and Routing protocols. We focus our studies in the routing layer while closely observing the developments in MAC layer. We present and examine analytical simulation results for the routing protocols DSR, AODV and ZRP, especially focusing in ZRP and the impact of some of its most important attributes to network performance, using the well known network simulator QualNet.

Reference

- "LOCCATEC: Low Catastrophic Event Capturing," European Research Project
ZRP versus AODV and DSR: A comprehensive study on ZRP performance


Index Terms

Electronics

Networks
Key words

Ad hoc

ZRP

DSR

AODV