

## Reactive Analysis of Different Protocol in Mobile Ad Hoc Network

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**Abstract :** Routing protocols have a central role in any mobile ad hoc network (MANET). There are many routing protocols that exhibit different performance levels in different scenarios. In this paper, we compare AODV, DSDV, DSR, and ZRP routing protocol in mobile ad hoc networks to determine the best operational conditions for each protocol. We analyze these routing protocols by extensive simulations in OPNET simulator and show how to pause time and the number of nodes affect their performance. In this study, performance is measured in terms of control traffic received, control traffic sent, data traffic received, sent data traffic, throughput, retransmission attempts.

**Keywords :** AODV, DSDV, DSR, ZRP

**Conference Title :** ICCSIT 2014 : International Conference on Computer Science and Information Technology

**Conference Location :** Paris, France

**Conference Dates :** October 30-31, 2014