Abstract

This paper focuses on maintaining message continuity in a mobile Adhoc network. The dynamic source quick route rebuilding algorithm (DSQRRRA) provides continuity in packet routing to reach the next possible neighboring node in order to avoid resending the packet from the source. DSQRRRA calls for mobility management and scalable design. Mobility management is done through information exchanges between moving hosts in the Adhoc wireless network. The DSQRRRA uses cooperative protocols to coordinate with the Adhoc on demand Distance Vector routine (AODV) protocol for shortest route rebuilding in Random Access OFDMA network. The algorithm gives next alternative route immediately once there is a break in the link. Simulations have been performed to analyze the performance of AODV with and without DSQRRRA. The AODV with DSQRRRA reduced memory occupation and route broadcasting. It has minimized packet looping. Simulations also show that DSQRRRA provides quick delivery of packet from source to destination.

References

- S. Serbetli and A Yener, “Optimal power allocation for relay assisted F/TDMA adhoc
Dynamic Source Quick Route Rebuilding Algorithm for Random-access OFDMA Adhoc Network

Index Terms

Computer Science

Wireless Networks

Keywords

Cooperation ratio  OFDMA  RDF  SNR