

Abstract Details

Title: Modified AODV for Enhanced Performance of MANET under JF Attack

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Abstract: This paper modifies the existing TCP and AODV system to handle the jelly fish periodic dropping attack and the jelly fish delay variance attack. The proposed system modifies the AODV routing protocol and TCP to handle the jelly fish attack variants. The proposed system uses the E_TCP of the existing system along with the modified AODV routing to get the effective results. The proposed process uses the forwarding rate and the delay check to enhance the performance of the protocol. The forwarding rate is calculated by number of packet received divided by number of packet forwarded. The node with forwarding rate less than 0.70 i.e. 70% is discarded and the hello packet transmission is used to calculate the average delay within the path. If the packet doesn't reach the destination the average delay time than the packet is discarded and the route is marked as the congested route; where this threshold value i.e. constant value for any particular network. The other packet transmission doesn't prefer the route.

Keywords: MANET, Jelly Fish Attack, AODV.