DESIGN OF EEACK PROTOCOL FOR PARTIAL DROPPING IN WATCHDOG SECURITY SCHEME

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Abstract : Mobile Ad hoc network (MANET) is a collection of mobile nodes equipped with both a wireless transmitter and a receiver that communicate with each other via bidirectional wireless links either directly are indirectly. MANET has a decentralized network infrastructure. MANET does not require a fixed infrastructure, thus all nodes are free to move randomly. Open medium and remote distribution of MANET make it vulnerable to various types of attacks. Due to the nodes lack of physical protection, malicious attackers can easily capture and compromise nodes to achieve attacks. MANET is an open medium so it have lot of security issues in that so to overcome all this defects there are several protocols that are implemented to address this security issues   are watchdog and AACK (Adaptive acknowledgement protocols). Thesetwo protocols had overcome some of the problems like receiver collisions and limited transmission power but these protocols still fails to address false misbehavior report. In this work a new scheme called EEACK (EnhancedAdaptiveAcknowledgement protocol) consists of three major parts namely ACK, secure ACK(s-ACK) and misbehavior report authentication (MRA). By using all this various steps here overcome the existing problem of watchdog scheme like false misbehavior report and partial dropping.