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## 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 or 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 has a lot of security issues in that so to overcome all these defects there are several protocols that are implemented to address these security issues are watchdog and AACK (Adaptive acknowledgement protocols). These two protocols have overcome some of the problems like receiver collisions and limited transmission power but these protocols still fail to address false misbehavior report. In this work a new scheme called EEACK (Enhanced Adaptive Acknowledgement protocol) consists of three major parts namely ACK, secure ACK (s-ACK) and misbehavior report authentication (MRA). By using all these various steps here overcome the existing problem of watchdog scheme like false misbehavior report and partial dropping.