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DETECTION AND ELIMINATION OF WORMHOLE ATTACK WITH ENERGY LEVEL

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ABSTRACT:- MANETs are becoming common, since they can be deployed easily in a cost effective manner wherever needed. The large scale usage of MANET demands more security and confidentiality of the data Communicated through MANET. These networks are inherently vulnerable to various attacks due to the absence of concealed channel. The MANETs are self-configurable as they plays node as well as router. Wormhole attack is a great threat to MANET, as it is capable of launching several other types of attacks like black-hole attack, gray-hole attack, sink-hole attack, DDoS, etc. A strategically placed wormhole node can disrupt the entire Communication in the network [1]. In this paper, wormhole attack launched by exploiting AODV protocol in MANET, is detected and eliminated in two phases with their energy level. The preliminary phase in the process of identifying wormhole attack is done, based on timing analysis and hop count. After suspecting the attack, a Clustering based approach is used to confirm the presence of attack, and also to identify the attacker nodes. The propose system is to calculate energy level of each and every node in network. Based on the energy level of the node we can get the exact malicious node which is vulnerable to the system.

Keywords—MANET, AODV(Ad hoc On Demand Distance Vector)Protocol, NS2.35, TCL(Tool Command Language), Network Traffic

MAXIMIZING ENERGY EFFICIENCY IN MULTIPLE ACCES

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ABSTRACT:- The Quality of service for a network is characterized in terms of various parameters specifying packet delay and loss tolerance requirements for the application. The unreliable nature of the wireless channel demand for application of certain mechanisms to meet the Quality of Service requirements. There is medium access control and network layer are used to perform these tasks .However, mechanisms does not take (fading) channel conditions in to account In these paper, we investigate the problem using cross layer techniques where information flow and joint maximization of higher and physical layer is permitted. We propose a scheduling scheme to optimize the energy consumption of a multiuser multi-access system such that Quality of Service constraints in terms of packet loss are fulfilled while the system is able to maximize the advantages emerging from multiuser diversity. Fading condition removed for state-dependent scheduling thresholds and improve of the energy consumption. . Respectively, in this paper work focuses on a modeling and analyzing the effects of packet buffering capabilities of transmitter on the system energy for a packet loss tolerant applications. We also discuss low complexity schemes which shows comparable performance to the proposed scheme. The numerical evaluation reveals useful insights about the coupling effects of different Quality of Service parameters on the system energy consumption and validates our analytical result

Keywords—Quality of Service(QOS), medium access control (MAC).