Abstract

The aim of this Paper is to study the performance of the OLSR protocol. This paper is about security issues in OLSR. There are many ways a malicious node can exploit the vulnerabilities to launch attack on network. OLSR is a proactive routing protocol, Control packets has been send by OLSR to build and update the topology. As a part of this paper I have simulated a new attack method against OLSR based ad-hoc networks named as detour attack. Initially the attack is simulated with one attacker then with multiple attacks and the overall performance of network is observed under attack as well as normal conditions. The observations are made with different set of topologies and for different positions of attacking nodes. Finally a detection technique is
proposed to detect the presence of an attacker node carrying out Detour attack

References

- Paul Muhlethaler Adjih Cedric, Daniele Raffo. Attack against olsr: Distributed key management for security.

Index Terms
Computer Science Communication and Networks

Keywords
Wireless networks Routing Protocol Ad hoc network multi point relay Security Attacks