Abstract

In this paper, we identify and study a novel approach to secure WiMAX network for IKE (Investigation of internet key exchange) in terms of traffic security with the help of gateway security (GSE). Propose work has been applied on Location based network and we have observed the performance analysis of this attack on both type of network possible in WiMAX i.e Packet CS and ATM CS networks. We have done investigation on ASN-GW security with AES, 3 DES and MD5. IPSec is the primary Protocol use in wireless for traffic protection between the communicating entities. It operates on Network Layer and provides protection IP Datagram by encapsulating it into ESP tunnel. In security architecture there are security sublayer for data exchange between the MAC layer and PHY layer. There is no any security Layer has been provided between (ASN and BS) Network Layer/ IP Layer to application layer so this area is still a good for Research for security issues in WiMAX. We have proposed on Gateway security (GSE). In last phase we have given performance comparison between all four conditions with four scenarios. Analysis based on network simulation tool OPNET Modeler 14.5.
Reference

- Seok-Yee Tang, “WiMAX Security and Quality of Service an End-to-End Prospective”, 2010

Index Terms

Computer Science Security

Key words

WiMAX Security Analysis
GSE IKE
Packet CS
ATM CS
AES
MD5
RSA Signature

OPNET Modeler