Abstract

In presently a day’s remote (wireless) LAN is broadly utilized as a part of many public open spaces. Wireless access points expand wired network. It gives more flexibility to the clients. One of the fundamental concerns is that of Rogue Access Points (RAP). These security threads which bring about extreme damage to hierarchical information and assets could be because of inside or outer cause. Access point could be one reason which might permit attackers to break the security of authoritative system and permit them to get to sensitive data from system. The access points deployed without clear and definite permission from network administrator are called unauthorized, fake or rogue access point. There are numerous
Fake Access Point and Invalid Client Detection and Elimination using Agent Multi Sourcing

chances of presences of RAP in LAN data. Rogue Access Points (RAPs) is one of the foremost security threats in current network scenario, if not properly handled in time could lead from slight network faults to serious network failure. Most of the current solutions to detect rogue access points are not automatic and are dependent on a specific wireless technology. In this paper, we propose a Multi-Agent Based Methodology, which not only identifies Rogue Access Point but also completely eliminates it. This Methodology has the following exceptional properties: (1) it doesn’t require any specialized hardware; (2) the proposed algorithm detects and totally removes the RAPs from network; (3) it provides a cost-effective solution. The proposed technique can block RAPs as well as eliminate them from the networks both in form of Unauthorized APs or as a Rogue Clients Acting as APs.

References

- Hao Han, Fengyuan Xu, Chiu C. Tan, Yifan Zhang, and Qun Li, "VR-Defender: Self-Defense Against Vehicular Rogue APs for Drive-Thru Internet", IEEE trans., Vol. 63, No. 8, October 2014.
- Mrs. Fatima D. Mulla, Mr. Sandeep Vanjale, Prof. Dr. P. B. Mane; PROVIDING DATA SECURITY FOR WI-FI NETWORK USING MOBILE AGENT IN DISTRIBUTED SYSTEM; International Journal of Advanced Engineering Technology E-ISSN 0976-3945 IJAET/Vol. III/ Issue II/April-June, 2012/127-130 Research Article.
- Prof. Suryawanshi Govind R, Prof. S. B. Vanjale; Architecture of mobile agent for Distributed rogue access point detection in distributed system; CSCIT, Nanded on 09 Jan 2010.
- Mohan K Chirumamilla, Byrav Ramamurthy; Agent Based Intrusion Detection and Response System for Wireless LANs; CSE.
- Lanier Watkins, Raheem Beyah, Cherita Corbett; A Passive Approach to Rogue Access Point Detection; 1930-529X/07/$25. 00 © 2007 IEEE.
- NetStumbler- http://www.netstumbler.com
- AirMagnet-http://www.airmagnet.com
- http://www.kismetwireless.net

Index Terms

Computer Science
Networks

Keywords
Rogue Access Point Wlan