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WIFI JAMMER

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ABSTRACT: A WiFi jammer is a device that disrupts wireless network signals, typically by emitting radio frequency interference on the same frequencies used by WiFi devices. Its abstract concept involves interfering with WiFi communications, rendering them ineffective within a certain range. It's essential to note that using WiFi jammers is illegal in many countries due to their potential for causing network disruptions and privacy violations. They are typically employed for malicious purposes and can result in severe legal consequences.

We investigate the impact of jamming attacks on the performance of smartphones regarding their WiFi access and propose a real-time jamming detection method based on the received signal strength indicator and the packet loss rate of WiFi signals, which can be easily implemented on Android smartphones. Experiments are performed to evaluate the proposed jamming detect on method, in which universal software radio peripherals are used as jammer to block the WiFi signals between smartphone phones and wireless routers. Experimental results show that the proposed application can detect jamming attacks with small false alarm rate and miss detection rate.

It is true that every technology has its advantages and disadvantages regardless of its complexity and perfectness. It is true in case of jamming also. It has many advantages in battles, cold conflicts between two nations. In many countries, deauthers are illegal, except in the military, law enforcement and other government agencies, where deauthers are largely used to prevent bomb detonation or to isolate suspects in hostage situation. There is, in fact, a way to create a Node-MCU Wi-Fi jammer although technically, this is a deauther and a jammer. A jammer sends out noise on the Wi-Fi frequency spectrum (2.4GHz) while the program in this tutorial sends packets that disrupts the normal functions of your WiFi router. So if the aim is to block WiFi to users and other features are to block unknown users using our network, Clone a wi-fi into may to get confuse of hackers

I. INTRODUCTION

A Wi-Fi is a trade mark term used for IEEE 802.11 set of LAN protocols that implements wireless local area network in various frequencies. The IEEE 802 protocol specifies physical layer (PHY) and media access control layer (MAC) protocols to implement LAN. The Wi-Fi works on the RF (radio frequency) technology since there is no physical connection between the sender and the receiver. It functions when a frequency within the electromagnetic spectrum associates with radio wave propagation. When an RF current is supplied to an antenna, an electromagnetic field is created that then is able to propagate through space. The wireless connection has an end point named as the Access point (AP). The key job of an access point is to broadcast a wireless signal that computers can detect and "tune" into. In order to connect to an access point and join a wireless network, computers and devices must be equipped with wireless network adapters. Wi-Fi is supported by many applications and devices including video game consoles, home networks, PDAs, mobile phones, major operating systems and other types of consumer electronics. Any products that are tested and approved as "Wi-Fi Certified" by the Wi-Fi Alliance are certified as interoperable with each other, even if they are from different manufacturers. For example, a user with a Wi-Fi Certified product can use any brand of access point with any other brand of client hardware that also is also "Wi-Fi Certified". Products that pass this certification are required to carry an identifying seal on their packaging that states "Wi-Fi Certified" and indicates the radio frequency band used (2.5GHz for 802.11b, 802.11g, or 802.11n, and 5GHz for 802.11a). A Deauther allows you to disconnect devices from a WiFi network. Even if you're not connected to that network. Deauther take advantage of a weakness in the 802.11 protocol which allows the sending of deauthentication frames by unauthorized devices.

II. LITERATURE SURVEY

Title: Quadcopter Design and Implementation as a Multidisciplinary Engineering Course

Description: Main objective is the design and implementation of quadrotor helicopter system. Only Design For Quadcopter not for Provide any stabilization..

Title: Secure Two-Way Transmission via Wireless Powered Untrusted Relay and External Jammer

Description: In this paper, we propose a two-way secure communication scheme where two transceivers exchange confidential messages via a wireless-powered untrusted amplify and-forward relay in the presence of an external jammer. We take into account both friendly jamming (FJ) and Gaussian noise jamming (GNJ) scenarios

Title: Jamming Detection of Smartphones for WiFi Signals

Description: In this paper, we investigate the impact of jamming attacks on the performance of smartphones regarding their WiFi access and propose a real-time jamming detection method based on the received signal strength indicator and the packet loss rate of WiFi signals, which can be easily implemented on Android smartphones. Experiments are performed to evaluate the proposed jamming detection method,

III. WORKING MODULE

The Arduino IDE can be downloaded and set up freely from Arduino. cc website.

First, need to Install the Arduino IDE & open it.

After that Go to File Option -> Preferences.

Need to add esp8266 packages to the extra board's manager URLs.

Next open Tools -> Board -> Boards Manager

Search for esp8266 after that install the board.

Lastly, IDE needs to restart.

Need to download the repository (Release Version 1.5) from GitHub.

Take out the downloaded folder & find the way to the following path for opening the file within Arduino IDE.

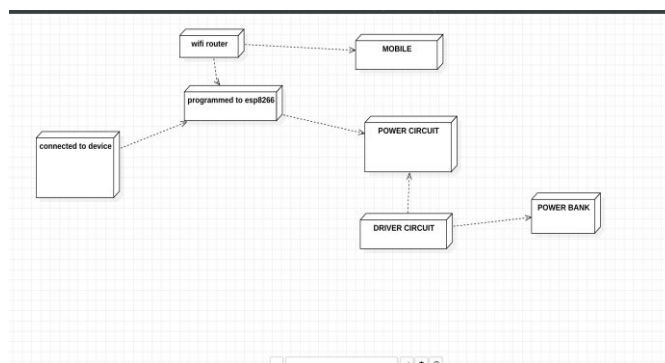
Open Tools -> Board and choose the suitable board that you are utilizing.

Open Tools -> Port -> and choose the right comm. port.

Click the upload button.

Once the tab alerts that uploading is done then the device is ready to use. Now module needs to be connected through a power supply with a micro USB connector or a battery.

Once this module is connected to a WiFi with the name of "pwned" then you have to connect to this WiFi network using a phone/laptop & enter the secret word as "deauther". Once it is connected to the device, then open a browser & navigate to the IP address 192.168.4.1. Because this is the main website from wherever you can control all At last, choose the WiFi connection you wish to attack.



IV. CONCLUSION

Jammers are very useful to the society from the anti-social elements. We can save our national leaders. We can restrict the communication network between the anti-social elements by using the cell phone jammers. Cell phone jammers prevent the students from carrying cell phones to the colleges. As everything goes fine, it is very necessary to implement in all the colleges.

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