

WiFi Security



TRUSTLOOK



Introduction

Wireless network provides an easy access to end users for internet surfing, but this ease of access brings a more open attack target to hackers.

Security concerns for wireless networks always happens whenever they are in private business environments or public places. If users are connecting to a public wifi that may not require a password. Users have no way to ascertain the security of the network or even verify and validate that it is truly the network or a fake one. Attackers may intercept and read and/or modify your data by Man-in-the-Middle method, these data could be the apps you have installed, MAC address, location data and other network traffic. Attacker also can spread malware in your system or bypass access controls of network. Furthermore, wireless phishing will redirect users' visitings to phishing sites and steal sensitive data like account credentials, credit card information from spoofed shopping websites.

As such, the security of your wifi network is essential.



Trustlook

Trustlook WiFi Security is a part of Trustlook Mobile Security SDK that has been used hundreds of enterprises and developers world-wide.

Trustlook WiFi Security provides the following functionalities to secure your Wifi network.

Encryption and Authentication Detection

Explore encryption and authentication types of wireless network. The SDK could detect connection status of Open (No password), WEP, WPA, WPA2 - PSK, WPA2 - Enterprise, Hidden SSID from the current Wifi network, and suggest strong authentication should be enforced to the Wifi configuration.

ARP Spoofing Detection

Malicious parties use ARP spoofing to steal information, modify data-in-transit or stop network traffic. Trustlook Mobile Security SDK help to identify the threat of spoofing attacks through inspecting and certifying data of ARP responses.

DNS Spoofing Detection

If DNS server was modified in an offensive way, the result causes the specific domain name are rerouted to a different IP address which is totally controlled by the attacker and may contain files infected with malware. Trustlook Mobile Security SDK help to identify and reduce the threat of the DNS spoofing.

SSL Stripping & Splitting Detection

SSL Stripping & Splitting attacks would let the network data transferred in plain text format and can be easily intercepted by hackers. These vulnerability will result in data leaking to man-in-the-middle tools. Trustlook Mobile Security SDK helps to detect the SSL attacks, and

remind whether personal identifiable information or business sensitive data are in dangerous status during network activities.

Summary

Trustlook WiFi Security is now being provided as SDK for Android System.

With a couple of lines, mobile developers could integrate SDK into there security application or network applications.

No need to understand the complicated algorithm and rules in the background, just simply call the APIs and it will tell the security details of current Wifi connection.