

ABSTRACT

Today one of technology that always grows up is VoIP and WLAN. VoIP (Voice Over IP) is a kind of application that a voice was sent into data package, and projected to future tech that based on data package. Wireless network take a high mobility and simple at the implementation. But the problem is both of wireless and VoIP have a low security in a bad configuration.

This final project implants the security of wireless LAN that is used by VoIP and knowing this performance. We test the security side with *sniffing, weakness WEP and WPA key, spoofing, man in the middle, call interception and DoS (Denial of Services)*, to know the performance of sending data with VoIP we look from the *delay, jitter and loss package*.

The result of the experiment is 128 bit WEP need 2,3 longer time in password cracking and need IVs 2,4 more than 64 bit WEP. Cracking with 9 word character in WPA-PSK and WPA2-PSK need 9 times longer than 8 character. Comparing delay, jitter and loss package before and after securing is (20,0116ms,4,5460ms,0% : 20,0102ms,3,1957ms,0%). The conclusion of measuring VoIP package is that everything what we do with security configuration will not take effect for VoIP network performance.