ABSTRACT

Growth of WLAN base on Wi-Fi (Wireless Fidelity) standard 802.11b

able to answer the necessity of information exchange on wireless that makes

communication flexible and more practical. Along with time growth emerge idea

to provide assorted of service, include voice over WLAN

To provide voice service over WLAN, there are some factors which must

be paid attention to, such as trade off delay and packet loss. Moreover for the

case of multifloor, multiwall indoor building require some special calculation

because the appearance of some factor such as material attenuation, scattering

and also multipath. Those factors have an effect on signal propagation and

perhaps on quality of application service.

This Final Duty study voice performance over WLAN with case study in

E Bulding STTTELKOM. Specification of E Bulding close to multiwall,

multifloor building type. The research conclude that wall gives significant

atenuation for 12-14 dB, while glass gives 3 dB and wood gives 2 dB atenuation.

Those materials atenuation influence voice quality especially for it's packet loss

that reach 25%.

Key words: WLAN, 802.11b, propagation, attenuation, voice

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