ABSTRACT

As the times are so fast, today's technology is required to provide internet access

anywhere, anytime, and mobile in real time and continuously. WLAN and mobile

development IP.V-6 is expected to be a combination of networks that can provide these

services to each user.

At this final task author WLAN network modeling with multiple AP (Access Point)

that the user will move from one AP (Access Point) to another AP (Access Point), so that

the handover process can be analyzed to see the soft-handover in mobile IP v.6 and

analyze parameters during the process of soft the handover. Expected when the process of

moving users from one AP (Access Point) to another AP (Access Point), the user can still

access the internet and data communications continue running without interruption. This

study focused more on the process of soft handover and any matters that could result in

soft handover took place on the mobile IP.

On this final task, the author uses the Mobile IP.V-6 is considered to have many

advantages compared to Mobile IP.V-4, either in security or auto address configuration.

The method used is the author of the design and analysis of network simulations. Things

that will be analyzed is the active access point, throughput, and delay. Simulator is used to

author the OPNET Modeler network planning. Because of mobile IP, the simulation can be

run according to scenario, the user can move from one AP (Access Point) to another AP

(Access Point) and allow the soft handover.

Keywords: ipv6, ipv6 mobile, wlan, 802.11, OPNET

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