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Abstract

One of the main changes in the field of telecommunications is the use of wireless technology. Wireless technology is also implemented in the Ahmad Dahlan University Campus 3 Research Laboratory environment, better known as wireless LAN (WLAN). Each user within the range of campus research laboratory area Ahmad Dahlan University radiates an access point (AP). Another negative impact is that communication that occurs will be easily intercepted between the security of campus network users. The stages performed in this study use the PEAP EAP method to provide security to safer wireless. This security method aims to protect client authentication. PEAP only requires a digital certificate on the authentication side of the server, while the digital certificate on the wireless side of the client will be replaced by using a combination of username and password. Thus, the conclusion of the security implementation using the Freradius Authentication tool by using the PEAP EAP protocol can improve security on the wireleses. Authentication aims to verify the identity of the client so that only registered/valid users can connect to the network and do not need a long time when authentication.
References

19. Dirk van der Walt, “FreeRADIUS Beginner's Guide Manage your network resources with


**Index Terms**

Computer Science  
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**Keywords**

(EAP), (PEAP), Protocol, Freradius, IEEE 802.1X.