

Forensics Readiness for Wireless Body Area Network (WBAN) System

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Abstract— Wireless Body Area Network (WBAN) is a wireless network that can be attached or implanted onto the human body by using wireless sensor. Since WBAN developed for medical devices, the system should be design for a wide range of end user with different professional skill groups. This require WBAN system to be open, accurate and efficient. As from our previous experienced, any open system is vulnerable, similar to any other current available wireless systems such as Wireless Local Area Network (WLAN). However, currently there were not many discussions on the WBAN security vulnerability and security threats and if there is any, the issues were discussed through theoretical, concept and simulation data. In this paper, we discuss potential WBAN security vulnerability and threats using Practical Impact Assessment (PIA) conducted in real environment so that we are able to identify the problem area in details and develop potential solutions to produce a forensics readiness secure network architecture for WBAN system.

Keywords— Forensics Readiness, Information Security, Practical Impact Assessment, Secure Network Architecture, Wireless Body Area Network (WBAN)



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