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Weaknesses and Security Obstacles in The Application of MANETs for Provision of Smart Health Care

The use of smart devices in provision of healthcare provides numerous benefits. Use of technology in the healthcare profession has generally led to faster diagnosis, lower costs, health workers and research collaboration, reliable services, efficient and effective healthcare systems as well. The provision of smart healthcare services is dependent on MANETs. While technology is particularly indispensable, security of the systems and data remains a critical challenge that hinders the accelerated adoption of smart health care. It is reported that smart healthcare devices experience twice the number of cyber security attacks as opposed to other industries. These attacks are made possible due to the weaknesses and nature of smart devices in MANETs. These weaknesses give rise to security obstacles that inhibit the adoption of smart health care. There is need to investigate these weaknesses and obstacles in the application of MANETs for provision of smart health care. This study will describe and enlighten the various obstacles so as to aid guide on the best practices for provision of secure Smart Healthcare. This research used a desk research of general literature review methodology. The results identify the various weakness and outline commensurate vulnerabilities as well as attacks that take advantage of these vulnerabilities. Ultimately this research gives design recommendations that can be incorporated in providing ways to seal these gaps.

Keywords

MANET, Smart Health Care, IOT, DDos, Cyber Attacks.

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