IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 5.731
Volume 11, Issue 1, November 2021

Review on Cybersecurity as a Crucial Component in Ensuring the Security and Integrity of Wireless Communications that use sensor Integration

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Abstract: *The emergence of sensor networks as a prominent technological trend in the next decades has posed several distinct challenges for academics. These networks may consist of numerous small sensing nodes that function autonomously and, in some circumstances, do not have access to sustainable energy sources. Small-scale, limited-resource sensor nodes may arise due to cost constraints and the requirement for widespread, imperceptible deployments. In this research, we specifically concentrate on the security of Wireless Sensor Networks, despite the numerous concerns that exist in sensor networks as a whole. We would like to propose many security objectives for wireless sensor networks. We have conducted a comprehensive threat analysis of wireless sensing element networks due to the importance of security in the adoption and use of these networks for many applications. Typically, we aim to include additional safeguards against these hazards for the Wireless Sensing Element Network.*

Keywords: Wireless Sensor Network (WSN), Security