Kelompok :

Asep Irawan

Danang A.M

Hendri Purnomo

Tetra P.U

topik : IoT Security

scope :

1. How IoT Communication Work

2. Risk in IoT Communication

3. Security Technique for IoT Communication

**REVIEW**

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| Title | **Internet of Things Security, Device Authentication and Access Control: A Review** |
| Type | International Journal of Computer Science and Information Security (IJCSIS) |
| Volume & Page | Vol. 14, No. 8, |
| Year | 2016 |
| Author | Inayat Ali, Sonia Sabir, Zahid Ullah |
| Reviewer | Hendri Purnomo , Asep Irawan, Danang A.M, Tetra Praja.U |
| Date | 25 November 2019 |
| Objective(s) | This study is to bring the state of the art device authentication and access control techniques on a single paper. |
| Subject | The interconnection of the internet enabled things or devices to each other and to humans, to achieve some common goals. |
| Strength(s) | In this paper we present a thorough study of security problems in IoT and classify possible cyber-attacks on each layer of IoT architecture. We also discuss challenges to traditional security solutions such as cryptographic solutions, authentication mechanisms and key management in IoT. |
| Weakness(es) | **-** |

**REVIEW**

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| Title | **Security Technigues in the Internet of Things** |
| Type | 3rd International Conference on Advances in Internet of Things and Connected Technologies (ICIoTCT) |
| Volume & Page | Vol. 14, No. 8, |
| Year | 2018 |
| Author | Nishikaa, Dr. Kamna Solankib , Dr. Sandeep Dalalc |
| Reviewer | Hendri Purnomo , Asep Irawan, Danang A.M, Tetra Praja.U |
| Date | 25 November 2019 |
| Objective(s) | This study shows an analytical review of the security threats in the IOT field and the prevention techniques. |
| Subject | The facial recognition system is analysed as the authentication mechanism in any IOT network and WSN is treated as the core data transfer network. Pros and cons of each segment are also discussed in the paper. |
| Strength(s) | The paper includes two different technologies namely Biometrics and the Wireless Sensor Network / MANET. |
| Weakness(es) | **-** |

**REVIEW**

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| Title | **Internet of Things Security** |
| Type |  |
| Volume & Page |  |
| Year | 2017 |
| Author | Vítězslav Grygar |
| Reviewer | Hendri Purnomo , Asep Irawan, Danang A.M, Tetra Praja.U |
| Date | 25 November 2019 |
| Objective(s) | The aim of this thesis is to create a modular sofware capable of performing vulnerability as-sessment on given system images. First chapter describes the term Internet of Things and requirements for IoT devices. Next chapter emphasizes security concerns in the area and sum-marizes recent events. |
| Subject | Possible vulnerability detection methods |
| Strength(s) |  |
| Weakness(es) | **-** |

**REVIEW**

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| --- | --- |
| Title | **Security in the Internet of Things : A Review** |
| =Type | International Conference on Computer Science and Electronics Engineering |
| Volume & Page |  |
| Year | 2012 |
| Author | Hui Suoa, Jiafu Wana,b  Caifeng Zoua, Jianqi Liua |
| Reviewer | Hendri Purnomo , Asep Irawan, Danang A.M, Tetra Praja.U |
| Date | 25 November 2019 |
| Introduction | * Internet of things is a concept where internet connectivity can exchange information with each other with the objects that are around it * security hole on iot ( munication data, hardware device, web service, aplication) * type of attack on iot (DDOS,  Brute Force Attack, Sql injection etc.) * solution to overcome attacks |
| Objective(s) | The research is to show the status of key technologies including :  encryption mechanism  communication security  protecting sensor data  cryptographic algorithms |
| Conclution | Brief review of the research progress of IoT about the security. By means of deeply analyzing the security architecture and features, the security requirements are given.. |