IoT Challenges: Standardization

1st Danish Zaheer Malik
Electronic Engineering
Hochschule Hamm Lippstadt
Lippstadt, Germany
Danish-zaheer.malik@stud.hshl.de

I. Abstract

Over the last few years, the Internet of Things (IoT) has grown in popularity and usage by leaps and bounds. The relevance of IoT in the lives of industries, technologists, and home users is well understood. Essentially, the Internet of Things (IoT) has brought in a massive industrial revolution and has aided in the automation of numerous activities in businesses and homes. The rapid rise of IoT, on the other hand, is a significant source of concern. concern. Not only are security, authentication, and privacy issues plaguing IoT. It also doesn't work as effectively as it should with access control issues. Industry 4.0 refers to the fourth industrial revolution.The lack of effective regulation, standards, and governance has resulted in a steady decline in the security of IoT networks and devices, as well as a wide spectrum of privacy concerns. This paper investigates the Internet of Things industry and discusses the critical need for standardisation, the benefits of governance, and the challenges that the IoT sector faces as a result of the lack of regulation. We also introduce an IoT security framework (IoTSFW) for organizations in this study to address the existing absence of rules in the IoT market. Implementing the guidelines outlined in the suggested framework will aid organizations in achieving security, privacy, long-term viability, and scalability in their IoT networks.

IX. reference

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