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A Literature survey of IOT techniques

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Abstract:

The Internet of Things (IoT) has a vision of a future where Internet users, computer systems, and everyday objects with sensing and actuation capabilities cooperate with the unprecedented convenience and economic benefits. As with the current architecture of the Internet, IP-based communications protocols will play a key role in enabling ubiquitous connectivity of devices in the context of IoT applications. These communication technologies are developed in accordance with the constraints of platforms may be used by applications to the detection of IoT, forming a communication stack capable of providing the required power-efficiency, reliability and connectivity Internet. Security will be a factor fundamental to most applications of IoT, mechanisms must also be designed to protect communications made possible by these technologies. This study analyzes existing protocols and mechanisms to secure communications in the IoT, as well as issues of open research. We analyze how existing approaches ensure that the basic safety requirements and protect communications on the IoT and the open challenges and strategies for future research in the field. This is, as far as our knowledge goes, the first survey with those goals.

Keywords:

IoT, Bluetooth, ZigBee, DTLS, RFID, IEEE 802.15.4 standard