On the Basis of High Technology Concept in Developing Safety Scenarios for Education Community

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ABSTRACT

In the thesis which is on the basis of IoT (internet of thing) schemes to develop a scenario for secure of education community. There are including the sensing nodes for physical layer, the internet connection for network layer, and the software package for the application layer. For the deployment of the standard protocols, such as Bluetooth, Zigbee, and WiFi and so on, the scenario was implemented completely in an elemental school located as Chunghau area. Three Zigbee nodes are deployed in the simulation process when all the jointing students passed by the station, then the signal from the Tag will be read via the reader embedded in a RFID (radio frequency identification) device. Moreover, for the purpose of understanding the performance of the all over the security system, an investigation sampling is held to the elemental school students. All the data are collected and analyzed for verification the well performance of the system. Furthermore, the shown data is also confirming the system performance of the multifunction dominated the deployed environments of the community area.

Keywords: IOT (internet of thing), sensing nodes, standard protocols, elemental school

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