HAN BASED BANK SECURITY SYSTEM

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KEYWORDS:

Red Tacton, Human Area Networking, Communication through Touch Technology.

INTRODUCTION:

The present system of security is not very efficient as it can be easily faked by the smart larceners as they can get hold of the keys or the passwords. Also it’s a painstaking job for the administration of the banks to keep an account of the locker activities as there is no dedicated employee appointed for this. They are also given a unique password and another password is any registered proof like the driving license number, passport number, voter id number or any other government authorized proof is also made of. They are also supposed to give alternatives to all the above samples so that it can be used to access the lockers in case of any mishap.

OBJECTIVES:

HAN based bank security system is mainly designed to meet the requisite of the security of valuable things which are hard earned. Unlike the present system involving the physical locks which can be easily forged this has the main feature of biometrics together with digital code locks which will open the door automatically whenever the series of authentication is verified and gives alert sounds when any mismatch occurs. A transmission path is formed at the moment a part of the human body comes in contact with a HAN transceiver. Communication is possible using any body surfaces, such as the hands, fingers, arms, feet, face, legs. HAN works through shoes and clothing as well. When the physical contact gets separated, the communication is ended.

METHODOLOGY:

Human area networking technology that uses surface of human body as a safe, high speed network transmission path. It is completely distinct from wireless and infrared technologies. This module consists of HAN transmitter, HAN receiver, Driver, Microcontroller unit, HAN; body of human being is used for transmission of signals. HAN transmitter consists of a DTMF encoder which generates both valid and Invalid signals and can be transmitted through human body through the HAN receiver for further processing. In HAN receiver by the use of DTMF decoder
the transmitted signal is identified. IR sensor senses authorised as well as unauthorized persons and automatically door1 opens. IF IR sensor senses the person with metal having magnetic radiations then buzzer alarms indicating an unauthorized person has entered. Then door1 will close and door2 will not open. If sensed person is authorized then door2 will open. When the part of the human body comes in contact with a HAN transceiver door3 will open.

**BLOCK DIAGRAM:**

![Diagram]

**CONCLUSION:**

The proposed HAN based bank security system has been implemented successfully and is tested on hardware. Experimental results verify the effective developed operation. When we compare Red Tacton with other technologies, it can give a better security since there is no problem of hackers as our body itself acts as transmission medium and can be used more in the fields where there is a need to upgrade the security in times of high theft rate.

**FUTURE SCOPE:**

HAN technology is expected to dominate Bluetooth technology in the future. HAN technology could put the use of cables to an end. The problem faced by the HAN technology is the cost of development. This technology brings a new dimension of communication which effectively links the user to anyone he wants to communicate. Since it provides high speed communication, it can provide seamless service wherever, whenever and whoever uses it.