Abstract

Body Area Networks are the networks of wireless medical sensors, deployed on a person for enabling pervasive, individualized real time health management. As BAN deals with personal health data, securing them especially their communication over the wireless link is very crucial if there is adequate security feature for the patient in the body area sensor network then the adversaries can change the actual data which will lead to wrong diagnostics and treatment of the patient in order to provide a personalized health care system. The Body Area Network along with the group key is established for the security concern where they will provide a separate key to each of the sensors that are of deployed in the patient body when this key matches with that of the health care server system the key establishment of the network

References

- Javad Ahmad, (2004) "Review of body area network technology & wireless..."
Empirical Usage of Body Area Network and Group key in Home Health Care System

medical monitoring", EURASIP networking journal on wireless communication of information technology pp 1-7

- Kalvinder, Vallipuram Muthukumarasamy, (2008) "Using physiological signals for the authentication in a group key agreement protocol"; international of physical networking system in sensors pp 406-407


- Kalvinder Singh Vallipuram Muthukumaraswamy, (2010) "Verification of key establishment protocol for the home health care system"; IEEE communication magazine pp 1-6

- Shital Supaseri and Rajesh Ingles (2009), "Performance analysis of sponsor selection algorithms in group key agreement"; IEEE ccnc volume 6 pp 819

- T. Falck, H. Baldus, Espina and K. Klabunde (2003), "plug and play simplicity for wireless medical body sensors"; IJERT vol 1 pp 1-16

- T. Balomenos (2011), "user requirements analysis and specification of health status analysis and hazard avoidance"; IEEE –EMBS on medical sensors implant pp 408


- Klabunde. k and schenk (2008) "Human centric connectivity enabled by body coupled communication"; SENSORCOMM on sensor applications pp 147-165

- Bao D. Poon & Zhang (2011) "using the timing information of heartbeats as a entity identifier"; EMBS symposium of medical sensors pp 68

- Wegmuller (2005), M. S, "intra body communication for bio medical sensors"; ISWC on sensor networks pp 408.

Index Terms

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