Abstract

In this paper, present an improved transmission control protocol. For IoT devices. Currently there are different protocols are exist based on user data gram approach. Similarly TCP is also worked alone, In this present work proposed and improved transmission control protocol that is the hybrid concept of TCP and UDP on IPV6 platform. In the ITCP protocol TCP is used for link connection between two devices and UDP is used for the data sending. On the basic on this proposed new protocol that shows good improved result the transmission time, throughput, packet delivery ratio and other parameters as compare to other IoT protocol present in the IoT. For the simulation of proposed ITCP protocol used JAVA platform. Also compare the proposed result with different protocols.

References

5. John A. Stankovic, “Research Directions for the Internet of Things”, National Science Foundation under grants CNS-1239483, CNS-1017363, and CNS-1319302. Copyright (c) 2014 IEEE
6. Design and Implementation of a Simple User Interface of a Smartphone for the Elderly 2014 IEEE 3rd global conferences on consumer electronics(GCCE)
7. Securing the IP-based internet of things with HIP and DTLS, April 2013
8. Research Directions for the Internet of Things 2014 IEEE
12. Slimfit — A HIP DEX compression layer for the IP-based Internet of Things, OCTOBER 2013
13. Convergence of MANET and WSN in IoT urban scenarios IEEE SENSORS JOURNAL · OCTOBER 2013
https://link.springer.com/chapter/10.1007/978-3-319-60435-0_21#citeas.
Index Terms

Computer Science  Security

Keywords

Computational time, throughput, packet delivery ratio (PDR), packet loss, transmission control protocol (TCP) and User data gram protocol (UDP).