Abstract

In this paper, an interconnection method between Bluetooth networks/devices and IP based Local Area Network is suggested to make possible LAN monitoring without physical connectivity. A Network Monitoring System (NMS) has been designed which has the role of connecting Bluetooth enabled devices to the Internet Protocol based Local Area Network. The client server based networking model is applied to the system consisting of a personalized Bluetooth network (laptop and mobile) and the specific host on the LAN to be monitored. As a result, an increase in the network error detection capability of the inter-connected network is achieved giving more access and flexibility in LAN infrastructure monitoring.

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Index Terms

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Keywords

Bluetooth mobile ad hoc network Network monitoring OS Linux client-server architecture