International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

RESEARCH ARTICLE

SECURE DATA TRANSMISSION OVER WIMAX NETWORKS USING VPN TECHNOLOGY IN REALTIME ENVIRONMENTS

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ABSTRACT

This paper reviews providing strong security is necessary for real time services of any wireless access networks. Wimax and LTE are the latest wireless broadband access networks support high data rate and mobility and become increasingly important as WiMAX data LANs are deployed for business, government and military applications. But free-space transmission introduces new opportunities for eavesdropping on Wireless data communications. What makes it worse is that the sender and the intended receiver have no means of knowing whether the transmission has been intercepted or not, so the eavesdropping is virtually undetectable. Several papers are dealt security stands out as a critical issue in the design and deployment of WiMAX networks but they are not dealt with real time in environment, But, this main contribution of this paper is to provide highly secure data transmission for real time services in real time environment while using Wimax networks, for that We introduces a Virtual Private Networks (VPNs) have emerged as an economic alternative to this current wireless network with building a private networks. VPNs provide security by integrating a set of authentication, encryption, and access control and session management components.

KEYWORDS - IEEE 802.16, WiMAX, security, VPN, MAC address Authentication, EAP, PKM, and PKMv2.

Full Text: http://www.ijcsmc.com/docs/papers/February2014/V3I2201460.pdf