**ABSTRACT**

The use of Wi-Fi enabled cell phones to access internet away from the pc is increasing day-by-day. This proposed model is a form of telecommunication that allows data and voice transmissions to be sent across a wide range of interconnected networks. The models, which are Wi-Fi enabled and have **ANDROID** platform, can be used to communicate channel **WITHOUT THE USE OF SIM CARD**. Since this is a free channel, security is a priority. In order to engender security, the packets of data may be encrypted in the header and payload by different encryption techniques. However even the security is a concern only within the specific network, the communication is completely safe from external attacks external to this local network. Each mobile device connects to a WLAN router and identifies itself in the routing table. Calls can be placed by a user by sending the packets to the router, which then tries to find the destination. The destination must also be connected to WLAN. Since the communication is only capable of being affected by an inside influence, it is provided with complex cryptography techniques, which engenders high security. This model will be a prototype of different devices communicating through in the Wi-Fi bandwidth and will reduce the communication cost in large organizations.

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**LIST OF ABBREVATIONS**

JDK - Java Development Kit

UMA - Unlicensed Mobile Access

WLAN - Wireless LAN

Wi-Fi - Wireless Fidelity

UDP - User Datagram protocol

SIP - Session Initiation Protocol

VoIP - Voice over Internet Protocol

IP - Internet Protocol

TCP - Transmission Control Protocol