



**RESEARCH ARTICLE**

# **Evolution of Mobile Wireless Communication Networks-1G to 5G as well as Future Prospective of Next Generation Communication Network**

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*Abstract— Mobile communication systems revolutionized the way people communicate. Evolution of wireless access technologies is about to reach its fourth generation (4G) and the 5G mobile networks will focus on the development of the user terminals where the terminals will have access to different wireless technologies at the same time and will combine different flows from different technologies. Looking past, wireless access technologies have followed different evolutionary paths aimed at unified target related to performance and efficiency in high mobile environment. The first generation (1G) has fulfilled the basic mobile voice, while the second generation (2G) has introduced capacity and coverage. This is followed by the third generation (3G), which has quest for data at higher speeds to open the gates for truly “mobile broadband” experience, which was further realized by the fourth generation (4G). The Fourth generation (4G) provides access to wide range of telecommunication services, including advanced mobile services, supported by mobile and fixed networks, which are increasingly packet based, along with a support for low to high mobility applications and wide range of data rates, in accordance with service demands in multiuser environment. Fifth generation should be more intelligent technology that interconnects the entire world. This article provides a high level overview of the Long Term Evolution (LTE) and Worldwide Interoperability for Microwave Access (WiMAX)-the leading technologies for next-generation mobile broadband.*

**Key Terms:** - *Wireless Communication; ITU; Networks; Mobile Broadband; Generation; Technology*

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Full Text: <http://www.ijcsmc.com/docs/papers/August2013/V2I8201317.pdf>