Abstract

The emerging technology, which allows high speed broadband wireless access, is the WiMAX technology which is based on the IEEE 802.16 family of standards. Mobile WiMAX (Worldwide Interoperability Microwave Access) is a wireless system based on the IEEE 802.16e [1] standard. In this paper occurrence of the handover in Wimax & LTE systems is shown and what are the requirements that have to be considered during the handoff mechanism are discussed so that the efficiency & throughput of the network may be increased. Orthogonal Frequency Division Multiple Access (OFDMA) is selected here as it provides high spectral efficiency and robust performance in high mobility scenarios and fading environments. In order to ensure proper quality of service for real-time communication in a mobile wireless Internet environment it is essential to minimize the transient packet loss when the mobile is moving
between different cells (subnets) within a domain.

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**Index Terms**

Computer Science  Wireless

**Keywords**

WiMAX  LTE  handoff  Wireless sensor network  OFDMA