



WiMax - WiFi Techniques for Baseband Convergence

Ali Al-Sherbaz

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This book illustrates solutions that, when implemented in any heterogeneous wireless network, shall enhance the existing standard without impacting the standard or changing the wireless transceiver's functions. Thus achieving efficient interoperability at much reduced overheads. The techniques proposed in this research are centred on the lower layers. This because of the facts that WiMax and WiFi standards have not addressed the backward compatibility of the two technologies at the MAC and PHY layers for the baseband functions. The proposed technique is to combine WiMax and WiFi signals so to utilise the same "baseband implementation chain" to handle both of these technologies, thus insuring ubiquitous data communication. WiMax-WiFi Baseband Convergence (W2BC) implementation is proposed to offer an optimum configurable solution targeted at combining the 802.16d WiMax and the 802.11a,n WiFi technologies. This approach provides a fertile ground for future work into combining more OFDM based wireless technologies. The W2BC can achieve saving in device cost, size, power consumption and implementation complexity when compared to side-by-side implementations for these two technologies.

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