

7.3 OFDMA overview

The simulation of OFDMA systems is similar to that of the CDMA systems, except that after the overall two-tiers cellular system structure (incl. wrap-around) is built and populated with mobiles, OFDMA replaces the CDMA power tuning process with an iterative process of assigning a variable number of traffic sub-carriers and calculating the overall carried traffic per base station.

The OFDMA module has been designed for a Long Term Evolution (LTE) network from 3GPP TR36 .942 [10]. Therefore E-UTRA RF coexistence studies can be performed with Monte-Carlo simulation methodology.

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