Study of Radio Resources Allocation in LTE for QoS

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Abstract – **In this article we are interested in an important task of the eNodeB in the LTE network architecture, it is the RRM (Radio Resource Management) its goal is to accept or reject requests for connection to the network, ensuring an optimal distribution of radio resources between the UEs (Users Equipments). It consists mainly of two elements AC (Admission Control) and PS (Packet Scheduling). In this work we will focus on the PS, which realizes an efficient allocation of radio resources in both directions i.e. Uplink (considered in our case) and Downlink.**
Several approaches and algorithms have been proposed in the literature to meet this need (allocate resources efficiently), this diversity and multitude of algorithms is linked to the factors considered allowing the optimal management of radio resource, specifically the type of traffic and QoS requested by the UE.
In this article, a study of several proposed scheduling algorithms for LTE (uplink and downlink) is made. Therefore, we offer our evaluation and reviews.

Keywords – **3G, AC, FDM, LTE, OFDMA, PS, RB, RRM, TDM, UE.**