Power Control And Power Headroom Reporting For Dual Connectivity

Abstract

The present disclosure relates to a method for efficiently performing power control in situations where the UE is connected to both a MeNB and SeNB. The MeNB determines a power distribution ratio for the power to be used by the UE for uplink transmission to the MeNB and SeNB, determines the parameters $P_{EMAX,MeNB}$ and $P_{EMAX,SeNB}$ and sends these parameters to the SeNB/UE for use in power control. Moreover, update of the power distribution ratio is performed by the MeNB with assistance by the UE, which provides the MeNB with information on the pathloss on the secondary radio link to the SeNB, preferably by transmitting a virtual power headroom report, regarding the secondary radio link to the SeNB, to the MeNB, from which the MeNB derives the information on the pathloss for the secondary radio link.

Fig. 17