AD HOC RADIO BASE STATION, SYSTEM, METHODS, AND COMPUTER PROGRAMS

ABSTRACT

Base stations, system, methods, and computer programs are disclosed to implement two successive or simultaneous ad hoc (Long-Term Evolution) LTE cells. The successive LTE cells are set up successively on a same channel number but with different Physical Cell IDs (PCID) and Tracking Area Codes (TAC). The simultaneous LTE cells are set up simultaneously on different channel numbers, and with different PCIDs and TACs. A radio connection is set up in the ad hoc LTE cell to an LTE user apparatus, and a Non-Access Stratum (NAS) timer is set simultaneously. The following is repeated until a predetermined period of time remains before an expiry of the NAS timer: commanding the LTE user apparatus to use full buffer in all uplink messages; forcing the LTE user apparatus to send uplink messages; and receiving a reply message from the LTE user apparatus.

Fig. 3A