

COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR MULTI-BAND RANDOM ACCESS

ABSTRACT

According to aspects of the present disclosure, communication apparatus and methods are provided. According to one aspect, a communication apparatus operating in at least a first band and a second band, the communication apparatus may comprise a receiver which, in operation, receives a signal including a Trigger frame allocating at least one Random Access Resource Unit (RA-RU) and a controller. In operation the controller may set a first Orthogonal Frequency Division Multiple Access (OFDMA) random access backoff (OBO) counter according to a number of RA-RUs determined to be eligible in at least one of the first and second bands in the received Trigger frame; and randomly select an eligible RA-RU in each of the at least one of the first and second bands corresponding to the first OBO counter for Trigger Based (TB) Physical layer Protocol Data Unit (PPDU) transmission when the first OBO counter is set to 0. The first OBO counter may be initialized according to a first OFDMA Contention Window (OCW).

Figure 1