SUMMARY

[6] A ~~N~~non-limiting example~~and exemplary embodiments~~ facilitates providing communication apparatuses and communication methods for resource unit allocation signalling in context of EHT WLAN.

[7] In ~~a first~~one aspect, the present disclosure provides a communication apparatus comprising circuitry, which, in operation, generates a physical layer protocol data unit (PPDU) comprising two signal field content channels in each 80 MHz frequency segment, each of the two signal field content channels comprising a plurality of resource unit (RU) allocation subfields, wherein a value of each of the plurality of RU allocation subfields is able to indicate sizes of component RUs of a large-size RU combination; and a transmitter, which, in operation, transmits the generated PPDU.

[8] In ~~a second~~another aspect, the present disclosure provides a communication method comprising generating a PPDU comprising two signal field content channels in each 80 MHz frequency segment, each of the two signal field content channels comprising a plurality of RU allocation subfields, wherein a value of each of the plurality of RU allocation subfields is able to indicate sizes of component RUs of a large-size RU combination; and transmitting the generated PPDU.

[8a] In another aspect, the present disclosure provides a communication apparatus comprising a receiver, which, in operation, receives a physical layer protocol data unit (PPDU) comprising two signal field content channels in each 80 MHz frequency segment, each of the two signal field content channels comprising a plurality of resource unit (RU) allocation subfields, wherein a value of each of the plurality of RU allocation subfields is indicative of sizes of component RUs of a large-size RU combination; and a circuitry, which, in operation, decodes the PPDU.

[9] It should be noted that general or specific ~~embodiments~~examples may be implemented as a system, a method, an integrated circuit, a computer program, a storage medium, or any selective combination thereof.

[10] Additional benefits and advantages of the examples in the disclosure~~disclosed embodiments~~ will become apparent from the specification

and drawings. The benefits and/or advantages may be individually obtained by the various ~~embodiments~~examples and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.