

CLAIMS

1. A resource allocation method, comprising:
 - receiving, by a station, a trigger frame from an access point, wherein
 - the trigger frame comprises one user information field comprising an association identifier that is same as an association identifier of the station, and the one user information field indicates a plurality of resource units allocated to the station; and
 - determining, by the station, the plurality of allocated resource units based on the trigger frame; wherein the determining, by the station, the plurality of allocated resource units based on the trigger frame comprises:
 - selecting, by the station from the trigger frame, one user information field that is the same as the association identifier of the station; and
 - for the selected one user information field, determining, by the station, more than one resource units indicated by the user information field, wherein
 - the more than one resource units indicated by the selected one user information field are the plurality of resource units allocated to the station;
 - wherein the user information field comprises a frequency band range indication and a resource unit indication, the frequency band range indication indicates an 80 MHz frequency band range in a bandwidth, and the resource unit indication indicates one index of more than one resource units; and
 - the determining, by the station, more than one resource units indicated by the user information field comprises:
 - determining, by the station based on the frequency band range indicated by the frequency band range indication and the one index indicated by the resource unit indication, the more than one resource units;
 - wherein the plurality of resource units indicated by the resource unit indication are a plurality of resource units corresponding to any one of the following combinations:
 - a combination of a second lowest-frequency 52-tone resource unit in one 20 MHz frequency band range and a second lowest-frequency 26-tone resource unit in the 20 MHz frequency band range, wherein the 20 MHz frequency band range is a first 20 MHz frequency band range or a second 20 MHz frequency band range in the 80 MHz frequency band range;
 - a combination of a second highest-frequency 52-tone resource unit in one 20 MHz frequency band range and a second highest-frequency 26-tone resource unit in the 20 MHz frequency band range, wherein the 20 MHz frequency band range is a third 20 MHz frequency band range or a fourth 20 MHz frequency band range in the 80 MHz frequency band range;

a combination of a second lowest-frequency 52-tone resource unit in one 20 MHz frequency band range in the 80 MHz frequency band range and a 26-tone resource unit in a center of the 20 MHz frequency band range;

a combination of a low-frequency 106-tone resource unit in one 20 MHz frequency band range in the 80 MHz frequency band range and a 26-tone resource unit in a center of the 20 MHz frequency band range;

a combination of a high-frequency 106-tone resource unit in one 20 MHz frequency band range in the 80 MHz frequency band range and a 26-tone resource unit in a center of the 20 MHz frequency band range;

a combination of a low-frequency 484-tone resource unit in the 80 MHz frequency band range and a second highest-frequency 242-tone resource unit in the 80 MHz frequency band range;

a combination of a high-frequency 484-tone resource unit in the 80 MHz frequency band range and a second lowest-frequency 242-tone resource unit in the 80 MHz frequency band range;

a combination of a low-frequency 484-tone resource unit in the 80 MHz frequency band range and a highest-frequency 242-tone resource unit in the 80 MHz frequency band range;

a combination of a high-frequency 484-tone resource unit in the 80 MHz frequency band range and a lowest-frequency 242-tone resource unit in the 80 MHz frequency band range.

2. The method according to claim 1, wherein the frequency band range indicated by the frequency band range indication is any one of the following:

a primary 80 MHz frequency band range, a secondary 80 MHz frequency band range, a third 80 MHz frequency band range, and a fourth 80 MHz frequency band range.

3. The method according to claim 1, further comprising:

sending, by the station, an extremely high throughput trigger-based physical layer protocol data unit, EHT TB PPDU, on the plurality of resource units.

4. A communication apparatus, comprising a processor, a memory, and a transceiver, wherein the transceiver is configured to receive a trigger frame;

the memory is configured to store program code; and

the processor is configured to invoke the program code from the memory, to cause the communication apparatus to perform the method in any one of claims 1 to 3.

5. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store instructions, and when the instructions are executed, the method according to any one of claims 1 to 3 is implemented.

6. A chip system, comprising:

at least one processor; and

a computer-readable storage medium, wherein the storage medium stores instructions, and wherein the instructions, when executed by the at least one processor, cause a communication apparatus comprising the chip system to perform the method according to any one of claims 1 to 3.