CLAIMS

What is claimed is:

1. A bandwidth mode indication method, wherein the method comprises:

generating a frame, wherein the frame is a non-high throughput (non-HT) frame or a non-high throughput duplicated (non-HT duplicated) frame, the frame comprises a service field, the service field occupies 16 bits (B0-B15), first seven bits (B0-B6) of the service field carry a scrambling sequence, a B7 bit of the service field indicates whether a bandwidth mode indication field carried in the frame indicates a target bandwidth mode, and the target bandwidth mode comprises320MHz or 160+160MHz; and

sending the frame.

2. The method according to claim 1, wherein that the B7 bit of the service field indicates whether the bandwidth mode indication field carried in the frame indicates the target bandwidth mode comprises:

when the B7 bit of the service field is set to a first preset value, the bandwidth mode indication field carried in the frame indicates a bandwidth mode in a first bandwidth mode set, wherein the first bandwidth mode set comprises 20 MHz, 40 MHz, 80 MHz, 80+80 MHz, or 160 MHz; or

when the B7 bit of the service field is set to a second preset value, the bandwidth mode indication field indicates the target bandwidth mode.

3. The method according to claim 1, wherein the frame further comprises a unicast/multicast bit; and

when the unicast/multicast bit is set to 1 and the B7 bit of the service field is set to a first preset value, the bandwidth mode indication field indicates a bandwidth mode in a first bandwidth mode set, wherein the first bandwidth mode set comprises 20 MHz, 40 MHz, 80 MHz, 80+80 MHz or 160 MHz; or

when the unicast/multicast bit is set to 1 and the B7 bit of the service field is set to a second preset value, the bandwidth mode indication field indicates a bandwidth mode in a second bandwidth mode set, wherein the second bandwidth mode set comprises the target bandwidth mode.

4. The method according to claim 2 or 3, wherein the first preset value is 0 and the second preset value is 1.

5. The method according to any one of claims 1 to 4, wherein the bandwidth mode indication field comprises a B5 bit and a B6 bit of the service field.

6. The method according to any one of claims 1 to 5, wherein the bandwidth mode indication field is CH_BANDWIDTH_IN_NON_HT field.

7. The method according to any one of claims 1 to 6, wherein the target bandwidth mode comprises a preamble puncturing bandwidth mode and/or a non-preamble puncturing bandwidth mode.

8. A bandwidth mode indication method, wherein the method comprises:

receiving a frame, wherein the frame is a non-high throughput (non-HT) frame or a non-high throughput duplicated (non-HT duplicated) frame, the frame comprises a service field, the service field occupies 16 bits (B0-B15), first seven bits (B0-B6) of the service field carry a scrambling sequence, a B7 bit of the service field indicates whether a bandwidth mode indication field carried in the frame indicates a target bandwidth mode, and the target bandwidth mode comprises 320MHz or 160+160MHz; and

parsing the frame.

9. The method according to claim 8, wherein that the B7 bit of the service field indicates whether the bandwidth mode indication field carried in the frame indicates the target bandwidth mode comprises:

when the B7 bit of the service field is set to a first preset value, the bandwidth mode indication field carried in the frame indicates a bandwidth mode in a first bandwidth mode set, wherein the first bandwidth mode set comprises 20 MHz, 40 MHz, 80 MHz, 80+80 MHz, or 160 MHz; or

when the B7 bit of the service field is set to a second preset value, the bandwidth mode indication field indicates the target bandwidth mode.

10. The method according to claim 8, wherein the frame further comprises a unicast/multicast bit; and

when the unicast/multicast bit is set to 1 and the B7 bit of the service field is set to a first preset value, the bandwidth mode indication field indicates a bandwidth mode in a first bandwidth mode set, wherein the first bandwidth mode set comprises 20 MHz, 40 MHz, 80 MHz, and 80+80 MHz or 160 MHz; or

when the unicast/multicast bit is set to 1 and the B7 bit of the service field is set to a second preset value, the bandwidth mode indication field indicates a bandwidth mode in a second

bandwidth mode set, wherein the second bandwidth mode set comprises the target bandwidth mode.

11. The method according to claim 9 or 10, wherein the first preset value is 0 and the second preset value is 1.

12. The method according to any one of claims 8 to 11, wherein the bandwidth mode indication field comprises a B5 bit and a B6 bit of the service field.

13. The method according to any one of claims 8 to 12, wherein the bandwidth mode indication field is CH_BANDWIDTH_IN_NON_HT field.

14. The method according to any one of claims 8 to 13, wherein the target bandwidth mode comprises a preamble puncturing bandwidth mode and/or a non-preamble puncturing bandwidth mode.

15. A communication apparatus, wherein the communication apparatus comprises a unit configured to perform the steps in the method according to any one of claims 1 to 14.

16. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions; and when the computer instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 14.

17. A chip, wherein the chip comprises a processing unit and a transceiver pin, the processing unit is configured to perform a processing operation in the method according to any one of claims 1 to 14, and the transceiver pin is configured to perform a communication operation in the method according to any one of claims 1 to 14.

18. A computer program product, wherein when the computer program product runs on a computer, the computer is enabled to perform the method according to any one of claims 1 to 14.

19. A communication apparatus, comprising:

a processor; and

a storage medium, configured to store computer instructions, which when executed by the processor, cause the communication apparatus to perform the method in any one of claims 1 to 14.