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; and the frame further comprises a unicast/multicast bit;

wherein the unicast/multicast bit indicates whether a bandwidth mode indication field carried in the frame indicates a bandwidth mode; and

when the unicast/multicast bit is set to 1 and a 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, and 80+80 MHz or 160 MHz;

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 carried in the frame indicates a bandwidth mode in a second bandwidth mode set, wherein the second bandwidth mode set comprises a target bandwidth mode, and the target bandwidth mode comprises 320MHz or 160+160MHz;

when the unicast/multicast bit is set to 0, the bandwidth mode indication field is not used to indicate the bandwidth mode; and

the method further comprises sending the frame.

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

3. The method according to claim 1 or 2, wherein the bandwidth mode indication field comprises a B5 bit and a B6 bit of the service field.

4. The method according to any one of claims 1 to 3, wherein the bandwidth mode indication field is CH_BANDWIDTH_IN_NON_HT field.

5. The method according to any one of claims 1 to 4, wherein the target bandwidth mode comprises a preamble puncturing bandwidth mode and/or a non-preamble puncturing bandwidth mode.

6. 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, and the frame further comprises a unicast/multicast bit;

wherein the unicast/multicast bit indicates whether a bandwidth mode indication field carried in the frame indicates a bandwidth mode; and

when the unicast/multicast bit is set to 1 and a 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, and 80+80 MHz or 160 MHz;

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 carried in the frame indicates a bandwidth mode in a second bandwidth mode set, wherein the second bandwidth mode set comprises a target bandwidth mode, and the target bandwidth mode comprises 320MHz or 160+160MHz;

when the unicast/multicast bit is set to 0, the bandwidth mode indication field is not used to indicate the bandwidth mode; and

the method further comprises parsing the frame.

7. The method according to claim 6, wherein the first preset value is 0 and the second preset value is 1.

8. The method according to claim 6 or 7, wherein the bandwidth mode indication field comprises a B5 bit and a B6 bit of the service field.

9. The method according to any one of claims 6 to 8, wherein the bandwidth mode indication field is CH_BANDWIDTH_IN_NON_HT field.

10. The method according to any one of claims 6 to 9, wherein the target bandwidth mode comprises a preamble puncturing bandwidth mode and/or a non-preamble puncturing bandwidth mode.

11. 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 10.

12. 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 10.

13. 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 10, and the transceiver pin is configured to perform a communication operation in the method according to any one of claims 1 to 10.

14. 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 10.

15. 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 10.