

CLAIMS

What is claimed is:

1. A communication method, wherein the method comprises:

receiving an extremely high throughput (EHT) operation element, wherein the EHT operation
5 element comprises a channel bandwidth field, a first channel center frequency field, and a second
channel center frequency field, wherein the channel bandwidth field indicates a channel bandwidth
of a basic service set (BSS), the first channel center frequency field and the second channel center
frequency field indicate channel location information of the BSS; and

obtaining bandwidth configuration information of the BSS based on the EHT operation
10 element, wherein the bandwidth configuration information of the BSS comprises the channel
bandwidth and the channel location information.

2. A communication method, wherein the method comprises:

generating an extremely high throughput (EHT) operation element, wherein the EHT
operation element comprises a channel bandwidth field, a first channel center frequency field, and
15 a second channel center frequency field, wherein the channel bandwidth field indicates a channel
bandwidth of a basic service set (BSS), the first channel center frequency field and the second
channel center frequency field indicate channel location information of the BSS; and

sending the EHT operation element.

3. The method according to claim 1 or 2, wherein the EHT operation element further
20 comprises a puncture bitmap indicating a punctured channel in the BSS.

4. The method according to claim 3, wherein the puncture bitmap comprises at least one bit;
the bit one-to-one corresponds to a channel element in a channel bandwidth of the BSS; and when
the bit is a preset bit value, the preset bit value indicates that the corresponding channel element is
a punctured channel, wherein a channel bandwidth of the channel element is 20 MHz.

5. The method according to any one of claims 1 to 4, wherein the first channel center
frequency field comprises first channel center frequency information indicating a center frequency
of the channel bandwidth of the BSS, the second channel center frequency field comprises second
channel center frequency information, and the second channel center frequency information is zero,
wherein,

when the channel bandwidth field indicates a first preset value and the first preset value is 0,
the first preset value indicates that the channel bandwidth of the BSS is 20 MHz;

when the channel bandwidth field indicates a second preset value and the second preset value
is 1, the second preset value indicates that the channel bandwidth of the BSS is 40 MHz; and

when the channel bandwidth field indicates a third preset value and the third preset value is

2, the third preset value indicates that the channel bandwidth of the BSS is 80 MHz.

6. The method according to any one of claims 1 to 5, wherein when the channel bandwidth field indicates a fourth preset value and the fourth preset value is 3, the first preset value indicates that the channel bandwidth of the BSS is 160 MHz, the first channel center frequency field comprises third channel center frequency information indicating a center frequency of a primary 80 MHz channel in the 160MHz channel bandwidth of the BSS, and the second channel center frequency field comprises fourth channel center frequency information indicating a center frequency of the 160 MHz channel bandwidth of the BSS, wherein a difference between the third channel center frequency information and the fourth channel center frequency information is equal to 8.

7. The method according to any one of claims 1 to 6, wherein when the channel bandwidth field indicates a fifth preset value and the fifth preset value is 4, the fifth preset value indicates that the channel bandwidth of the BSS is 320 MHz, the first channel center frequency field comprises fifth channel center frequency information indicating a center frequency of a primary 160 MHz channel in the 320MHz channel bandwidth of the BSS, and the second channel center frequency field comprises sixth channel center frequency information indicating a center frequency of the 320 MHz channel bandwidth of the BSS, wherein a difference between the fifth channel center frequency information and the sixth channel center frequency information is equal to 16.

8. The communication method according to claim 1, wherein the receiving EHT operation element, comprises:

receiving the EHT operation element in a 5 GHz frequency band.

9. The communication method according to claim 8, wherein the receiving EHT operation element in the 5 GHz frequency band comprises:

receiving a management frame in the 5 GHz frequency band, wherein the management frame carries a high throughput (HT) operation element and the EHT operation element.

10. The communication method according to claim 1, wherein the receiving EHT operation element, comprises:

receiving the EHT operation element in a 6 GHz frequency band.

11. The communication method according to claim 10, wherein the receiving EHT operation element in the 6 GHz frequency band comprises:

receiving a management frame, wherein the management frame carries a high efficiency (HE) operation element and the EHT operation element.

12. The method according to claim 2, wherein the sending the EHT operation element, comprises:

sending the EHT operation element in a 5 GHz frequency band.

13. The method according to claim 12, wherein the sending the EHT operation element in the 5 GHz frequency band comprises:

sending a management frame in the 5 GHz frequency band, wherein the management frame carries a high throughput (HT) operation element and the EHT operation element.

5 14. The method according to claim 2, wherein the sending the EHT operation element comprises:

sending the EHT operation element in a 6 GHz frequency band.

15. The method according to claim 14, wherein the sending the EHT operation element in the 6 GHz frequency band comprises:

10 sending a management frame, wherein the management frame carries a high efficiency (HE) operation element and the EHT operation element.

16. A terminal device, comprising:

a processor; and

15 a memory, configured to store computer instructions, which when executed by the processor, cause the terminal device to perform the method in any one of claims 1 and 3 to 11.

17. A network device, comprising:

a processor; and

a memory, configured to store computer instructions, which when executed by the processor, cause the network device to perform the method in any one of claims 2 to 7 and 12 to 15.

20 18. A chip, comprising:

a processor; and

a memory, configured to store computer instructions, which when executed by the processor, cause a terminal device comprising the chip to perform the method in any one of claims 1 and 3 to 11.

25 19. A chip, comprising:

a processor; and

a memory, configured to store computer instructions, which when executed by the processor, cause a network device comprising the chip to perform the method in any one of claims 2 to 7 and 12 to 15.

30 20. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions, which when executed by a processor, cause a terminal device comprising the processpr to perform the method in any one of claims 1 and 3 to 11.

21. A computer-readable storage medium, wherein the computer-readable storage medium stores computer instructions, which when executed by a processor, cause a network device
35 comprising the processpr to perform the method in any one of claims 2 to 7 and 12 to 15.