

WHAT IS CLAIMED IS:

1. A method for configuring a bandwidth part, for a base station that supports simultaneous transmission of multiple bandwidth parts, and comprising:

determining first target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available; and

simultaneously transmitting the multiple bandwidth parts and the first target indication information to a terminal that supports simultaneous reception of the multiple bandwidth parts.

2. The method as claimed in claim 1, wherein determining the first target indication information comprises:

performing listen-before-talk LBT to each bandwidth part in the multiple bandwidth parts to obtain a LBT result corresponding to each bandwidth part;

in response that a LBT result corresponding to one bandwidth part in the multiple bandwidth parts is successful, determining a value corresponding to the bandwidth part as a first preset value, otherwise determining the value corresponding to the bandwidth part as a second preset value; and

sorting the value corresponding to each bandwidth part in a preset order as the first target indication information.

3. The method as claimed in claim 1, wherein simultaneously transmitting the multiple bandwidth parts and the first target indication information to the terminal that supports simultaneous reception of the multiple bandwidth parts comprises:

configuring a downlink control signaling for the multiple bandwidth parts, the downlink control signaling for carrying the first target indication information; and

simultaneously transmitting the multiple bandwidth parts to the terminal after carrying the downlink control signaling on at least one bandwidth part in the multiple bandwidth parts.

4. The method as claimed in claim 3, wherein the bandwidth part for carrying the downlink control signaling is determined by a following manner:

using any one bandwidth part in the multiple bandwidth parts as the bandwidth part for carrying the downlink control signal; or

using a bandwidth part whose LBT result is successful in the multiple bandwidth parts as

the bandwidth part for carrying the downlink control signal.

5. The method as claimed in claim 1, further comprising:

configuring occupation duration information that a spare bandwidth part is occupied; the spare bandwidth part being an unavailable bandwidth part in the multiple bandwidth parts; and transmitting the occupation duration information to the terminal.

6. The method as claimed in claim 5, wherein transmitting the occupation duration information to the terminal comprises:

transmitting the occupation duration information to the terminal through downlink control information; or

transmitting the occupation duration information to the terminal a radio resource control signaling.

7. The method as claimed in claim 1, further comprising:

determining second target indication information in response to satisfying a specified condition; the second target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available, and a number of available bandwidth parts indicated by the second target indication information being different from a number of available bandwidth parts indicated by the first target indication information; and

transmitting the second target indication information to the terminal.

8. The method as claimed in claim 7, wherein the specified condition comprises:

an amount of data change of downlink data to be transmitted exceeding a preset value; or receiving a request message from the terminal for requesting to change a number of available bandwidth parts in the multiple bandwidth parts.

9. The method as claimed in claim 7, wherein transmitting the second target indication information to the terminal comprises:

transmitting the second target indication information to the terminal through a radio resource control signaling; or

transmitting the second target indication information to the terminal through a downlink control signaling.

10. A method for configuring a bandwidth part, for a terminal that supports simultaneous reception of multiple bandwidth parts, and comprising:

receiving the multiple bandwidth parts and first target indication information simultaneously transmitted by a base station; the first target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available;

determining at least one available bandwidth part among the multiple bandwidth parts based on the first target indication information; and

performing data transmission with the base station from a first target time unit through the at least one available bandwidth part; the first target time unit being a time unit following a time unit of receiving by the terminal the first target indication information.

11. The method as claimed in claim 10, wherein at least one bandwidth part in the multiple bandwidth parts carries a downlink control signaling, and the downlink control signaling carries the first target indication information.

12. The method as claimed in claim 10, wherein determining the at least one available bandwidth part among the multiple bandwidth parts based on the first target indication information comprises:

determining a value corresponding to each bandwidth part through a preset order based on the first target indication information;

determining the bandwidth part to be available in response that the value corresponding to one bandwidth part in the multiple bandwidth parts is a first preset value; and

determining the bandwidth part to be unavailable in response that the value corresponding to the bandwidth part is a second preset value.

13. The method as claimed in claim 11, further comprising:

determining occupation duration information that a spare bandwidth part is occupied; the spare bandwidth part being an unavailable bandwidth part in the multiple bandwidth parts.

14. The method as claimed in claim 13, wherein determining the occupation duration information that the spare bandwidth part is occupied comprises any one of:

receiving the occupation duration information transmitted by the base station through a

downlink control signaling;

receiving the occupation duration information transmitted by the base station through a radio resource control signaling; and

obtaining the occupation duration information pre-defined in a protocol.

15. The method as claimed in claim 11, further comprising:

performing data transmission with the base station from a second target time unit through an available bandwidth part indicated by second target indication information in response to receiving the second target indication information from the base station; the second target time unit being a time unit following a time unit of receiving by the terminal the second target indication information.

16. The method as claimed in claim 15, before receiving the second target indication information from the base station, further comprising:

transmitting a request message for requesting to change a number of available bandwidth parts in the multiple bandwidth parts to the base station in response that an amount of data change of uplink data to be transmitted exceeds a preset value.

17. The method as claimed in claim 15, wherein the second target indication information from the base station is received by a following manner:

receiving the second target indication information from the base station through a radio resource control signaling; or

receiving the second target indication information from the base station through a downlink control signaling.

18. An apparatus for configuring a bandwidth part, for a base station that supports simultaneous transmission of multiple bandwidth parts, and comprising:

a first determining module configured to determine first target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available; and

a first transmitting module configured to simultaneously transmit the multiple bandwidth parts and the first target indication information to a terminal that supports simultaneous reception of the multiple bandwidth parts.

19. A device for configuring a bandwidth part, for a base station that supports simultaneous transmission of multiple bandwidth parts, and comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

determine first target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available; and

simultaneously transmit the multiple bandwidth parts and the first target indication information to a terminal that supports simultaneous reception of the multiple bandwidth parts.

20. A device for configuring a bandwidth part, for a terminal that supports simultaneous reception of multiple bandwidth parts, and comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

receive the multiple bandwidth parts and first target indication information simultaneously transmitted by a base station; the first target indication information for indicating whether each bandwidth part in the multiple bandwidth parts is available;

determine at least one available bandwidth part among the multiple bandwidth parts based on the first target indication information; and

perform data transmission with the base station from a first target time unit through the at least one available bandwidth part; the first target time unit being a time unit following a time unit of receiving by the terminal the first target indication information.