CLAIMS

1. A communication method, comprising:

receiving, by a terminal device, configuration information of a first bandwidth part BWP, wherein the first BWP is an active BWP of the terminal device; and

performing, by the terminal device, measurement without measurement gaps based on a synchronization signal block SSB, wherein

a frequency domain resource of the first BWP does not comprise a frequency domain resource of the SSB, or a frequency domain resource of the first BWP comprises a part of frequency domain resources of the SSB.

2. The method according to claim 1, wherein the method further comprises:

receiving measurement configuration information from a network device, wherein the measurement configuration information does not comprise configuration information of a measurement gap, or the measurement configuration information comprises configuration information of a measurement gap, and the configuration information of the measurement gap indicates that the measurement gap is 0 milliseconds.

3. The method according to claim 1 or 2, wherein the frequency domain resource of the first BWP and the frequency domain resource of the SSB are located on a same carrier.

4. The method according to any one of claims 1 to 3, wherein the method further comprises: performing, by the terminal device, first data transmission with the network device on the first BWP, wherein

a time domain symbol occupied for the first data transmission and a time domain symbol occupied by the SSB overlap, partially overlap, or are adjacent to each other.

5. The method according to any one of claims 1 to 4, wherein the measurement without measurement gaps comprises at least one of the following: channel state information measurement, time-frequency synchronization measurement, radio resource management measurement, radio link monitoring measurement, radio link failure measurement, beam management measurement, and beam failure detection measurement.

6. The method according to any one of claims 1 to 5, wherein

the terminal device supports the measurement without measurement gaps in a first bandwidth, and the first bandwidth comprises the frequency domain resource of the first BWP and the frequency domain resource of the SSB.

7. The method according to claim 6, wherein

a size of the first bandwidth is less than a maximum bandwidth supported by the terminal device; and/or

the first bandwidth is less than a bandwidth size of the carrier.

8. The method according to claim 6 or 7, wherein the size of the first bandwidth is 20 MHz, 40 MHz, 60 MHz, or 80 MHz.

9. The method according to any one of claims 6 to 8, wherein the method further comprises:

receiving, by the terminal device, configuration information of the first bandwidth from the network device, wherein the configuration information of the first bandwidth indicates the size and/or a location of the first bandwidth; and

determining, by the terminal device, the first bandwidth according to a first rule, wherein the first rule indicates a location relationship among the frequency domain resource of the first BWP, the frequency domain resource of the SSB, and a frequency domain range of the first bandwidth.

10. The method according to any one of claims 6 to 9, wherein the size of the first bandwidth does not exceed a first threshold, and the first threshold is predefined, or the first threshold is configured by the network device.

11. The method according to any one of claims 1 to 10, wherein a spacing between the frequency domain resource of the first BWP and the frequency domain resource of the SSB does not exceed a second threshold, and the second threshold is predefined, or the second threshold is configured by the network device.

12. The method according to claim 11, wherein the method further comprises at least one of the following:

sending, by the terminal device, first capability information to the network device, wherein the first capability information indicates the first threshold and/or the second threshold supported by the terminal device; or

sending, by the terminal device, second capability information to the network device, wherein the second capability information indicates that the terminal device supports the measurement without measurement gaps.

13. The method according to any one of claims 1 to 12, wherein

the method further comprises: receiving, by the terminal device, first configuration information, wherein the first configuration information indicates a first time period; and

the performing, by the terminal device, measurement without measurement gaps based on an SSB comprises:

performing, by the terminal device, measurement without measurement gaps based on the SSB in the first time period.

14. The method according to claim 13, wherein

a start moment of the first time period is an end moment of a second time period, an end moment of the first time period is a start moment of a third time period, and the second time period

and the third time period are not used by the terminal device to perform data transmission.

15. The method according to claim 14, wherein the first configuration information further indicates the second time period and the third time period.

16. The method according to claim 14 or 15, wherein the first configuration information indicates at least one of a periodicity, a length, and a time domain offset of the first time period.

17. A communication method, comprising:

sending, by a network device, first configuration information to a terminal device, wherein the first configuration information indicates a first time period, and the first time period is a time period in which the terminal device performs measurement without measurement gaps based on an SSB; and

performing, by the network device, first data transmission with the terminal device on a first BWP, wherein

the first BWP is an active BWP of the terminal device, and a frequency domain resource of the first BWP does not comprise a frequency domain resource of the SSB, or a frequency domain resource of the first BWP comprises a part of frequency domain resources of the SSB.

18. The method according to claim 17, wherein the method further comprises:

sending measurement configuration information to the terminal device, wherein the measurement configuration information does not comprise configuration information of a measurement gap, or the measurement configuration information comprises configuration information of a measurement gap, and the configuration information of the measurement gap indicates that the measurement gap is 0 milliseconds.

19. The method according to claim 17 or 18, wherein the frequency domain resource of the first BWP and the frequency domain resource of the SSB are located on a same carrier.

20. The method according to any one of claims 17 to 19, wherein a time domain symbol occupied for the first data transmission and a time domain symbol occupied by the SSB overlap, partially overlap, or are adjacent to each other.

21. A communication apparatus, wherein the communication apparatus comprises a processor, and the processor is configured to run a computer program or instructions, to enable the communication apparatus to perform the communication method according to any one of claims 1 to 16.

22. A communication apparatus, wherein the communication apparatus comprises a processor, and the processor is configured to run a computer program or instructions, to enable the communication apparatus to perform the communication method according to any one of claims 17 to 20.

23. A computer-readable storage medium, wherein the computer-readable storage medium

stores computer instructions or a program, and when the computer instructions or the program are run on a computer, the communication method according to any one of claims 1 to 16 is performed, or the communication method according to any one of claims 17 to 20 is performed.