CLAIMS

What is claimed is:

1. A communication method, wherein the method is applicable to a first-type terminal device, and comprises:

receiving a system information block (SIB 1), from a network device, wherein the SIB 1 configures frequency resource of a first initial bandwidth part (BWP);

determining a frequency resource of the first initial BWP corresponding to the first-type terminal device, wherein the frequency resource of the first initial BWP does not overlap a frequency resource of a synchronization signal block (SSB); and

transmitting signaling and/or data to the network device based on the frequency resource of the first initial BWP.

2. The method according to claim 1, the frequency resource of the SSB overlap a second initial BWP, the second initial BWP corresponding to a second-type terminal device, and the first-type terminal device and a second-type terminal device have different capabilities.

3. The method according to claim 1 or 2, wherein that the first-type terminal device and the second-type terminal device have different capabilities comprises at least one of the following:

the first-type terminal device and the second-type terminal device have different bandwidth capabilities;

the first-type terminal device and the second-type terminal device have different quantities of transmit and receive antennas; or

the first-type terminal device and the second-type terminal device have different maximum uplink transmit powers.

4. The method according to any one of claims 1 to 3, wherein the first initial BWP comprises at least one of:

system information and/or control information for scheduling transmission of the system information;

paging information and/or control information for scheduling transmission of the paging information; and

random access response information.

5. The method according to any one of claims 2 to 4, wherein

the first-type terminal device is a new radio (NR) reduced capability terminal device, and the second-type terminal device is a non-NR reduced capability terminal device.

6. A communication method, wherein the method is applicable to network device, and comprises:

transmitting a system information block (SIB 1), wherein the SIB 1 configures frequency resource of a first initial bandwidth part (BWP), and the first initial BWP corresponding to a first-type terminal device, wherein the frequency resource of the first initial BWP does not overlap a frequency resource of a synchronization signal block (SSB); and

receiving signaling and/or data to the first-type terminal device based on the frequency resource of the first initial BWP.

7. The method according to claim 6, the frequency resource of the SSB overlap a second initial BWP, the second initial BWP corresponding to a second-type terminal device, and the first-type terminal device and a second-type terminal device have different capabilities.

8. The method according to claim 6 or 7, wherein that the first-type terminal device and the second-type terminal device have different capabilities comprises at least one of the following:

the first-type terminal device and the second-type terminal device have different bandwidth capabilities;

the first-type terminal device and the second-type terminal device have different quantities of transmit and receive antennas; or

the first-type terminal device and the second-type terminal device have different maximum uplink transmit powers.

9. The method according to any one of claims 6 to 8, wherein the first initial BWP comprises at least one of:

system information and/or control information for scheduling transmission of the system information;

paging information and/or control information for scheduling transmission of the paging information; and

random access response information.

10. The method according to any one of claims 7 to 9, wherein

the first-type terminal device is a new radio (NR) reduced capability terminal device, and the second-type terminal device is a non-NR reduced capability terminal device.

11. An apparatus for determining an initial bandwidth part BWP, wherein the apparatus is a first-type terminal device or a chip for the first-type terminal device, the apparatus comprises:

a communication unit, configured to receive a system information block (SIB 1), from a network device, wherein the SIB 1 configures frequency resource of a first initial bandwidth part (BWP);

a processing unit, configured to determine a frequency resource of the first initial BWP corresponding to the first-type terminal device, wherein the frequency resource of the first initial BWP does not overlap a frequency resource of a synchronization signal block (SSB); and

the communication unit, is further configured to transmit signaling and/or data to thenetwork device based on the frequency resource of the first initial BWP.

12. The apparatus according to claim 11, the frequency resource of the SSB overlap a second initial BWP, the second initial BWP corresponding to a second-type terminal device, and the first-type terminal device and a second-type terminal device have different capabilities.

13. The apparatus according to claim 11 or 12, wherein that the first-type terminal device and the second-type terminal device have different capabilities comprises at least one of the following:

the first-type terminal device and the second-type terminal device have different bandwidth capabilities;

the first-type terminal device and the second-type terminal device have different quantities of transmit and receive antennas; or

the first-type terminal device and the second-type terminal device have different maximum uplink transmit powers.

14. The apparatus according to any one of claims 11 to 13, wherein the first initial BWP comprises at least one of:

system information and/or control information for scheduling transmission of the system information;

paging information and/or control information for scheduling transmission of the paging information; and

random access response information.

15. The apparatus according to any one of claims 12 to 14, wherein

the first-type terminal device is a new radio (NR) reduced capability terminal device, and the second-type terminal device is a non-NR reduced capability terminal device.

16. An apparatus, wherein the apparatus is network device or a chip for the network device, the apparatus, comprising:

a communication unit, configured to transmit a system information block (SIB 1), wherein the SIB 1 configures frequency resource of a first initial bandwidth part (BWP), and the first initial BWP corresponding to a first-type terminal device, wherein the frequency resource of the first initial BWP does not overlap a frequency resource of a synchronization signal block (SSB); and

the communication unit, is further configured to receive signaling and/or data to the network device based on the frequency resource of the first initial BWP.

17. The apparatus according to claim 16, the frequency resource of the SSB overlap a second initial BWP, the second initial BWP corresponding to a second-type terminal device, and the first-type terminal device and a second-type terminal device have different capabilities.

18. The apparatus according to claim 16 or 17, wherein that the first-type terminal device and the second-type terminal device have different capabilities comprises at least one of the following:

the first-type terminal device and the second-type terminal device have different bandwidth capabilities;

the first-type terminal device and the second-type terminal device have different quantities of transmit and receive antennas; or

the first-type terminal device and the second-type terminal device have different maximum uplink transmit powers.

19. The apparatus according to any one of claims 16 to 18, wherein the first initial BWP comprises at least one of:

system information and/or control information for scheduling transmission of the system information;

paging information and/or control information for scheduling transmission of the paging information; and

random access response information.

20. The apparatus according to any one of claims 17 to 19, wherein

the first-type terminal device is a new radio (NR) reduced capability terminal device, and the second-type terminal device is a non-NR reduced capability terminal device.

21. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program; and when the computer program is run on a computer, the computer

is enabled to perform the method according to any one of claims 1 to 5, or the computer is enabled to perform the method according to any one of claims 6 to 10.

22. A computer program, which causes a processor to carry out the methods according to any one of claims 1 to 5, or carry out the methods according to any one of claims 6 to 10.