CLAIMS

1. A communication method, wherein the method is performed by a first-type terminal device or a chip of the first-type terminal device and the first-type terminal device is a reduced capability terminal device, and comprises:

receiving a system information block 1, 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, wherein 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, wherein the second-type terminal device is a non-NR reduced capability terminal device.

3. The method according to claim 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 claim 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 1 to 4, wherein the first initial BWP is an initial BWP of the first-type terminal device in radio resource control, RRC, idle state or RRC inactive state.

6. A communication method, wherein the method is performed by a network device or a chip of the network device, and comprises:

transmitting a system information block 1, 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, wherein the second-type terminal device is a non-NR reduced capability (RedCap) terminal device.

8. The method according to claim 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 6 to 9, wherein the first initial BWP is an

initial BWP of the first-type terminal device in radio resource control, RRC, idle state or RRC inactive state.

11. A communication apparatus, wherein the apparatus a first-type terminal device or a chip of the first-type terminal device, comprising:

a transceiver unit, configured to receive a system information block 1, 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 transceiver unit, is further configured to transmit signaling and/or data to the network 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, wherein 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, wherein the second-type terminal device is a non-NR reduced capability terminal device.

13. The apparatus according to claim 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 11 to 14, wherein the first initial BWP is an

initial BWP of the first-type terminal device in radio resource control, RRC, idle state or RRC inactive state.

16. A communication apparatus, wherein the apparatus a first-type terminal device or a chip of the first-type terminal device, comprising:

a transceiver unit, configured to transmit a system information block 1, 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 transceiver unit is further configured to receive signaling and/or data to the first-type terminal 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, wherein the second-type terminal device is a non-NR reduced capability (RedCap) terminal device.

18. The apparatus according to claim 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 16 to 19, wherein the first initial BWP is an initial BWP of the first-type terminal device in radio resource control, RRC, idle state or RRC

inactive state.

21. A communications apparatus, comprising a processor and a communications interface, wherein the processor is configured to invoke an instruction from the communications interface and run an instruction, and when the processor executes the instruction, a terminal device implements the method according to any one of claims 1 to 5.

22. A network apparatus, comprising a processor and a communications interface, wherein the processor is configured to invoke an instruction from the communications interface and run an instruction, and when the processor executes the instruction, a terminal device implements the method according to any one of claims 6 to 10.

23. A computer-readable storage medium, comprising instructions when executed by a computer, cause the computer to carry out the method according to any one of claims 1 to 5, or cause the computer to carry out the method according to any one of claims 6 to 10.