

CLAIMS

What is claimed is:

1. A multicast information receiving method, comprising:

receiving a master information block, MIB configuring a bandwidth of an initial bandwidth part from a network device, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

receiving a system information block, SIB1 from the network device on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

receiving first indication information from the network device, wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of the bandwidth of the initial bandwidth part configured in the MIB, and the bandwidth of the initial bandwidth part configured in the SIB1;

determining the first bandwidth of the first bandwidth part based on the first indication information; and

receiving the first multicast information on the first bandwidth of the first bandwidth part.

2. A method, comprising:

receiving a master information block, MIB configuring a bandwidth of an initial bandwidth part, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

receiving a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

receiving first indication information,

determining, based on the first indication information, a first bandwidth of a first bandwidth part, wherein the first bandwidth part is for receiving first multicast information; the first bandwidth part is the initial BWP configured in the MIB, or is the initial downlink BWP configured in the SIB1; or is a bandwidth part configured for multicast information reception; and

receiving the first multicast information on the first bandwidth of the first bandwidth part.

3. The method according to claim 1 or 2, wherein the first indication information is carried in system information other than the SIB1.

4. The method according to any one of claims 1 to 3, wherein receiving the first multicast information comprises receiving the first multicast information in a non-connected state, and the non-connected state comprises an idle state and an inactive state.

5. The method according to any one of claims 1 to 4, wherein the first bandwidth part is consecutive frequency resources.

6. The method according to any one of claims 1 to 5, wherein the method further comprises: receiving a paging message or system information on the bandwidth of the CORESET0 configured by the MIB when no longer receives the first multicast information.

7. The method according to any one of claims 1 to 6, wherein the bandwidth of the initial bandwidth part configured by the SIB1 is for receiving service information after entering a connected state from a non-connected state.

8. The method according to any one of claims 1 to 7, wherein the method further comprises:
acquiring first information, wherein the first information is carried in the SIB1, or the first information is carried in system information other than the SIB1;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is the CORESET0, wherein the CORESET corresponding to the first bandwidth of the first bandwidth part is for listening to control information.

9. The method according to any one of claims 1 to 7, wherein the method further comprises:
acquiring first information, wherein the first information is carried in the SIB1, or the first information is carried in system information other than the SIB1;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is a first CORESET, wherein the first CORESET is less than or equal to the first bandwidth of the first bandwidth part, and the first CORESET is for listening to control information, the first CORESET is larger than the bandwidth of the CORESET0.

10. A multicast information sending method, comprising:
sending a master information block, MIB configuring a bandwidth of an initial bandwidth part to a first terminal apparatus, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

sending a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB to the first terminal apparatus, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

sending first indication information to the first terminal apparatus, wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of the bandwidth of the initial bandwidth part configured in the MIB, and the bandwidth of the initial bandwidth part configured in the SIB1;

sending the first multicast information on the first bandwidth of the first bandwidth part.

11. A method, comprising:

sending a master information block, MIB configuring a bandwidth of an initial bandwidth part, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

sending a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

sending first indication information, wherein the first indication information indicates a first bandwidth of a first bandwidth part, wherein the first bandwidth part is for receiving first multicast information; the first bandwidth part is the initial BWP configured in the MIB, or is the initial downlink BWP configured in the SIB1; or is a bandwidth part configured for multicast information reception; and

sending the first multicast information on the first bandwidth of the first bandwidth part.

12. The method according to claim 10 or 11, wherein the first indication information is carried in system information other than the SIB1.

13. The method according to any one of claim 10 to 12, wherein the first bandwidth part is consecutive frequency resources.

14. The method according to any one of claims 10 to 13, wherein the bandwidth of the initial bandwidth part configured by the SIB1 is for sending service information after the first terminal apparatus entering a connected state from a non-connected state.

15. The method according to any one of claims 10 to 14, wherein

the SIB1 comprises first information, or the system information other than the SIB1 comprises first information;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is the CORESET0, wherein the CORESET corresponding to the first bandwidth of the first bandwidth part is for listening to control information.

16. The method according to any one of claims 10 to 14, wherein

the SIB1 comprises first information, or the system information other than the SIB1 comprises first information;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is a first CORESET, wherein the first CORESET is less than or equal to the first bandwidth of the first bandwidth part, and the first CORESET is for listening to control information, the first CORESET is larger than the bandwidth of the CORESET0.

17. A communication apparatus, comprising:

a transceiver unit, configured to receive a master information block, MIB configuring a bandwidth of an initial bandwidth part from a network device, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit, further configured to receive a system information block, SIB1 from the network device on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

the transceiver unit, further configured to receive first indication information from the network device, wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of the bandwidth of the initial bandwidth part configured in the MIB, and the bandwidth of the initial bandwidth part configured in the SIB1;

a processing unit, configured to determine the first bandwidth of the first bandwidth part based on the first indication information; and

the transceiver unit, further configured to receive the first multicast information on the first bandwidth of the first bandwidth part.

18. A communication apparatus, comprising:

a transceiver unit, configured to receive a master information block, MIB configuring a bandwidth of an initial bandwidth part from a network device, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit, further configured to receive a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

the transceiver unit, further configured to receive first indication information, wherein the first indication information indicates a first bandwidth of a first bandwidth part, wherein the first bandwidth part is for receiving first multicast information;

a processing unit, configured to determine based on the first indication information, the first

bandwidth of the first bandwidth part, wherein the first bandwidth part is the initial BWP configured in the MIB, or is the initial downlink BWP configured in the SIB1; or is a bandwidth part configured for multicast information reception; and

the transceiver unit, further configured to receive the first multicast information on the first bandwidth of the first bandwidth part.

19. The communication apparatus according to claim 17 or 18, wherein the first indication information is carried in system information other than the SIB1.

20. The communication apparatus according to any one of claims 17 to 19, wherein receive the first multicast information comprises receive the first multicast information in a non-connected state, and the non-connected state comprises an idle state and an inactive state.

21. The communication apparatus according to any one of claims 17 to 20, wherein the first bandwidth part is consecutive frequency resources.

22. The communication apparatus according to any one of claims 17 to 21, wherein the transceiver unit, further configured to receiving a paging message or system information on a bandwidth of a CORESET0 configured by the MIB when no longer receives the first multicast information.

23. The communication apparatus according to any one of claims 17 to 22, wherein the bandwidth of the initial bandwidth part configured by the SIB1 is for receiving service information after entering a connected state from a non-connected state.

24. The communication apparatus to any one of claims 17 to 23, wherein the transceiver unit further configured to:

acquire first information, wherein the first information is carried in the SIB1, or the first information is carried in system information other than the SIB1;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is the CORESET0, wherein the CORESET corresponding to the first bandwidth of the first bandwidth part is for listening to control information.

25. The communication apparatus to any one of claims 17 to 23, wherein the transceiver unit further configured to:

acquire first information, wherein the first information is carried in the SIB1, or the first information is carried in system information other than the SIB1;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is a first CORESET, wherein the first CORESET is less than or equal to the first bandwidth of the first bandwidth part, and the first CORESET is for listening to control information,

the first CORESET is larger than the bandwidth of the CORESET0.

26. A communication apparatus, comprising:

a transceiver unit, configured to send a master information block, MIB configuring a bandwidth of an initial bandwidth part to a first terminal apparatus, wherein a bandwidth configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit, further configured to send a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB to the first terminal apparatus, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

the transceiver unit, further configured to send first indication information to the first terminal apparatus, wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of the bandwidth of the initial bandwidth part configured in the MIB, and the bandwidth of the initial bandwidth part configured in the SIB1;

the transceiver unit, further configured to send the first multicast information on the first bandwidth of the first bandwidth part.

27. A communication apparatus, comprising:

a transceiver unit, configured to send a master information block, MIB configuring a bandwidth of an initial bandwidth part, wherein the bandwidth of the initial bandwidth part configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit, further configured to send a system information block, SIB1 on the bandwidth of the initial bandwidth part configured by the MIB, wherein a bandwidth of an initial downlink bandwidth part configured by the SIB1 is greater than or equal to the bandwidth of the CORESET0 and covers the CORESET0 in frequency domain;

the transceiver unit, further configured to send first indication information, wherein the first indication information indicates a first bandwidth of a first bandwidth part, wherein the first bandwidth part is for receiving first multicast information; the first bandwidth part is the initial BWP configured in the MIB, or is the initial downlink BWP configured in the SIB1; or is a bandwidth part configured for multicast information reception; and

the transceiver unit, further configured to send the first multicast information on the first bandwidth of the first bandwidth part.

28. The communication apparatus according to claim 26 or 27, wherein the first indication information is carried in system information other than the SIB1.

29. The communication apparatus according to any one of claims 26 to 28, wherein the first bandwidth part is consecutive frequency resources.

30. The communication apparatus according to any one of claims 26 to 29, wherein the bandwidth of the initial bandwidth part configured by the SIB1 is for sending service information after the first terminal apparatus entering a connected state from a non-connected state.

31. The communication apparatus according to any one of claims 26 to 30, wherein the SIB1 comprises first information, or the system information other than the SIB1 comprises first information;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is the CORESET0, wherein the CORESET corresponding to the first bandwidth of the first bandwidth part is for listening to control information.

32. The communication apparatus according to any one of claims 26 to 30, wherein the SIB1 comprises first information, or the system information other than the SIB1 comprises first information;

the first information indicates that a CORESET corresponding to the first bandwidth of the first bandwidth part is a first CORESET, wherein the first CORESET is less than or equal to the first bandwidth of the first bandwidth part, and the first CORESET is for listening to control information, the first CORESET is larger than the bandwidth of the CORESET0.

33. A communication apparatus, comprising a processor, wherein the processor is connected to a memory, the memory is configured to store a computer program, and the processor is configured to execute the computer program stored in the memory, to enable the communication apparatus to perform the method according to any one of claims 1 to 9.

34. A communication apparatus, comprising a processor, wherein the processor is connected to a memory, the memory is configured to store a computer program, and the processor is configured to execute the computer program stored in the memory, to enable the communication apparatus to perform the method according to any one of claims 10 to 16.

35. A computer-readable storage medium comprising computer program which, when the computer program is executed, cause the computer to carry out the method according to any one of claims 1-9.

36. A computer-readable storage medium comprising computer program which, when the computer program is executed, cause the computer to carry out the method according to any one of claims 10-16.

37. A chip, comprising a processor and an interface, wherein the processor is configured to read instructions to perform the method according to any one of claims 1 to 9.

38. A chip, comprising a processor and an interface, wherein the processor is configured to read instructions to perform the method according to any one of claims 10 to 16.

39. A communication system, comprising the communication apparatus according to any one of claims 17 to 25 and the communication apparatus according to any one of claims 26 to 32.