

CLAIMS

What is claimed is:

1. A multicast information receiving method, comprising:

receiving, ~~by a first terminal apparatus,~~ first indication information from a network device,
5 wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of a bandwidth configured in a master information block, MIB, and a bandwidth configured in a system information block, SIB1;

~~determining, by the first terminal apparatus, a first bandwidth of a first bandwidth part BWP based on the first indication information, wherein the first BWP is for receiving first multicast information, and the first bandwidth is a bandwidth configured in a master information block MIB or a system information block SIB1; and~~
10 determining an initial bandwidth part, BWP, based on the MIB, wherein a bandwidth of the initial BWP configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

~~receiving, by the first terminal apparatus, the first multicast information on the first bandwidth of the first bandwidth part.~~

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

4. The method according to any one of claims 1 to 3, wherein the first bandwidth part is consecutive frequency resources.
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5. The method according to any one of claims 1 to 4, wherein before receiving first indication information, the method further comprises:

receiving the MIB,

determining an initial bandwidth part, BWP, based on the MIB, wherein a bandwidth of the initial BWP configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;
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receiving the SIB1 on the initial BWP, wherein a bandwidth of the initial BWP configured by the SIB1 is larger than or equal to the bandwidth of the CORESET0, the bandwidth of the initial BWP configured by the SIB1 is for receiving service information after entering a connected state from a non-connected state.

6. The method according to any one of claims 1 to 5, wherein the method further comprises:
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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.

27. The method according to claim 1, wherein the determining, by the first terminal apparatus,
a first bandwidth of a first bandwidth part ~~BWP~~ based on the first indication information comprises:

5 if the first indication information indicates that a bandwidth of a first control resource set CORESET is greater than a bandwidth of a CORESET0, ~~determining, by the first terminal apparatus,~~ that the first bandwidth is a bandwidth configured in the SIB1; or

if the first indication information indicates that a bandwidth of a first CORESET is less than or equal to a bandwidth of a CORESET0, ~~determining, by the first terminal apparatus,~~ that the first
10 bandwidth is the bandwidth configured in the MIB, wherein

the first CORESET is configured in system information.

38. The method according to claim 1, wherein the determining, by the first terminal apparatus,
a first bandwidth of a first bandwidth part ~~BWP~~ based on the first indication information comprises:

~~determining, by the first terminal apparatus~~ based on the first indication information, that the
15 first bandwidth is a bandwidth configured in the MIB or the SIB1, wherein the first indication information comprises a correspondence between the first multicast information and a receive bandwidth or between intra-cell multicast information and a receive bandwidth.

49. A multicast information receiving-sending method, comprising:

sending, ~~by a network device,~~ first indication information to a first terminal apparatus,
20 wherein the first indication information indicates that a first bandwidth of a first bandwidth part for receiving first multicast information is one of a bandwidth configured in a master information block, MIB, and a bandwidth configured in a system information block, SIB1;

sending the first multicast information on the first bandwidth of the first bandwidth part ~~is for determining a first bandwidth of a first BWP, the first BWP is for receiving first multicast~~
25 ~~information, and the first bandwidth is a bandwidth configured in a master information block MIB or a system information block SIB1.~~

10. The method according to claim 9, wherein the first indication information is carried in system information other than the SIB1.

11. The method according to claim 9 or 10, wherein the first bandwidth part is consecutive
30 frequency resources.

12. The method according to any one of claims 9 to 11, wherein before sending first indication

information, the method further comprises:

sending the MIB, wherein the MIB indicates a bandwidth of an initial BWP, the bandwidth of the initial BWP configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

5 sending the SIB1 on the initial BWP, wherein a bandwidth of the initial BWP configured by the SIB1 is larger than or equal to the bandwidth of the CORESET0, the bandwidth of the initial BWP configured by the SIB1 is for sending service information after first terminal apparatus entering a connected state from a non-connected state.

10 135. The method according to claim 49, wherein

if the first indication information indicates that a bandwidth of a first control resource set CORESET is greater than a bandwidth of a CORESET0, the first bandwidth is the bandwidth configured in the SIB1; or

15 if the first indication information indicates that a bandwidth of a first CORESET is less than or equal to a bandwidth of a CORESET0, the first bandwidth is the bandwidth configured in the MIB, wherein

the first CORESET is configured in system information.

20 614. The method according to claim 49, wherein the first indication information comprises a correspondence between the first multicast information and a receive bandwidth or between intra-cell multicast information and a receive bandwidth.

715. An indication information receiving method, comprising:

25 receiving, ~~by a first terminal apparatus,~~ second indication information from a network device, wherein the second indication information indicates the first terminal apparatus to use a first bandwidth or a second bandwidth after the first terminal apparatus enters a connected state, the first bandwidth is a bandwidth of an initial BWP configured in a SIB1, and the second bandwidth is a bandwidth configured to receive multicast information and is configured in the SIB1; and

~~determining, by the first terminal apparatus~~ based on the second indication information, that the bandwidth of the initial BWP is the first bandwidth or the second bandwidth.

816. The method according to claim 715, wherein the method further comprises:

30 before receiving the second indication information, sending, ~~by the first terminal apparatus,~~ third indication information to the network device, wherein the third indication information

indicates whether the first terminal apparatus receives the multicast information.

917. An indication information sending method, comprising:

~~sending, by a network device,~~ second indication information to a first terminal apparatus, wherein the second indication information indicates the first terminal apparatus to use a first bandwidth or a second bandwidth after the first terminal apparatus enters a connected state, the first bandwidth is a bandwidth of an initial BWP configured in a SIB1, and the second bandwidth is a bandwidth configured to receive multicast information and is configured in the SIB1.

~~1018~~. The method according to claim 917, wherein the method further comprises:

before sending the second indication information, ~~receiving, by the network device,~~ third indication information from the first terminal apparatus, wherein the third indication information indicates whether the first terminal apparatus receives the multicast information.

~~1119~~. A communication apparatus, comprising:

a transceiver unit, configured to receive first indication information from a 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 a bandwidth configured in a master information block, MIB, and a bandwidth configured in a system information block, SIB1; and

~~a processing unit, configured to determine the first bandwidth of the first bandwidth part BWP based on the first indication information, wherein the first BWP is for receiving first multicast information, and the first bandwidth is a bandwidth configured in a MIB or a SIB1; and~~

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

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

21. The communication apparatus according to claim 19 or 20, 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.

22. The communication apparatus according to any one of claims 19 to 21, wherein the first bandwidth part is consecutive frequency resources.

23. The communication apparatus according to any one of claims 19 to 22, wherein

the transceiver unit, further configured to receive the MIB,

the processing unit, further configured to determine an initial bandwidth part, BWP, based on

the MIB, wherein a bandwidth of the initial BWP configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit,, further configured to receive the SIB1 on the initial BWP, wherein a bandwidth of the initial BWP configured by the SIB1 is larger than or equal to the bandwidth of the CORESET0, the bandwidth of the initial BWP configured by the SIB1 is for receiving service information after entering a connected state from a non-connected state.

24. The communication apparatus according to any one of claims 19 to 23, 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.

25. The communication apparatus according to claim 19, wherein when determining the first bandwidth of the first bandwidth part-BWP based on the first indication information, the transceiver unit is specifically configured to:

if the first indication information indicates that a bandwidth of a first CORESET is greater than a bandwidth of a CORESET0, determine that the first bandwidth is the bandwidth configured in the SIB1; or

if the first indication information indicates that a bandwidth of a first CORESET is less than or equal to a bandwidth of a CORESET0, determine that the first bandwidth is the bandwidth configured in the MIB, wherein

the first CORESET is configured in system information.

26. The communication apparatus according to claim 19, wherein when determining the first bandwidth of the first bandwidth part-BWP based on the first indication information, the transceiver unit is specifically configured to:

determine, based on the first indication information, that the first bandwidth is a bandwidth configured in the MIB or the SIB1, wherein the first indication information comprises a correspondence between the first multicast information and a receive bandwidth or between intra-cell multicast information and a receive bandwidth.

27. A communication apparatus, comprising:

a transceiver unit, configured to send first indication information to a 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 a bandwidth configured in a master information

block, MIB, and a bandwidth configured in a system information block, SIB1;

the transceiver unit, further configured to send the first multicast information on the first bandwidth of the first bandwidth part is for determining a first bandwidth of a first BWP, the first BWP is for receiving first multicast information, and the first bandwidth is a bandwidth configured in a master information block MIB or a system information block SIB1.

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

29. The communication apparatus according to claim 27 or 28, wherein the first bandwidth part is consecutive frequency resources.

30. The communication apparatus according to any one of claims 27 to 29, wherein the transceiver unit, further configured to send the MIB, wherein the MIB indicates a bandwidth of an initial BWP, the bandwidth of the initial BWP configured by the MIB is same as a bandwidth of a control resource set 0, CORESET0;

the transceiver unit, further configured to send the SIB1 on the initial BWP, wherein a bandwidth of the initial BWP configured by the SIB1 is larger than or equal to the bandwidth of the CORESET0, the bandwidth of the initial BWP configured by the SIB1 is for sending service information after first terminal apparatus entering a connected state from a non-connected state.

14531. The communication apparatus according to claim 14427, wherein

if the first indication information indicates that a bandwidth of a first control resource set CORESET is greater than a bandwidth of a CORESET0, the first bandwidth is the bandwidth configured in the SIB1; or

if the first indication information indicates that a bandwidth of a first CORESET is less than or equal to a bandwidth of a CORESET0, the first bandwidth is the bandwidth configured in the MIB, wherein

the first CORESET is configured in system information.

14632. The communication apparatus according to claim 14427, wherein the first indication information comprises a correspondence between the first multicast information and a receive bandwidth or between intra-cell multicast information and a receive bandwidth.

14733. A communication apparatus, comprising:

a transceiver unit, configured to receive second indication information from a network device, wherein the second indication information indicates a first terminal apparatus to use a first

bandwidth or a second bandwidth after the first terminal apparatus enters a connected state, the first bandwidth is a bandwidth of an initial BWP configured in a SIB1, and the second bandwidth is a bandwidth configured to receive multicast information and is configured in the SIB1; and

a processing unit, configured to determine, based on the second indication information, that the bandwidth of the initial BWP is the first bandwidth or the second bandwidth.

~~18~~34. The communication apparatus according to claim ~~17~~33, wherein the transceiver unit is further configured to:

before receiving the second indication information, send third indication information to the network device, wherein the third indication information indicates whether the first terminal apparatus receives the multicast information.

~~19~~35. A communication apparatus, comprising:

a transceiver unit, configured to send second indication information to a first terminal apparatus, wherein the second indication information indicates the first terminal apparatus to use a first bandwidth or a second bandwidth after the first terminal apparatus enters a connected state, the first bandwidth is a bandwidth of an initial BWP configured in a SIB1, and the second bandwidth is a bandwidth configured to receive multicast information and is configured in the SIB1.

~~20~~36. The communication apparatus according to claim ~~19~~35, wherein the transceiver unit is further configured to:

before sending the second indication information, receive third indication information from the first terminal apparatus, wherein the third indication information indicates whether the first terminal apparatus receives the multicast information.

~~21~~37. 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 ~~3~~8 or the method according to claim ~~7~~15 or 16.

~~22~~38. 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 ~~4~~9 to 14 or the method according

to claim ~~9-17~~ or ~~18~~9.

~~2339. A computer-readable storage medium comprising instructions which, when executed by a computer, cause the computer to carry out the method according to any one of claims 1-8, wherein the computer-readable storage medium stores a computer program, and when the computer program is run, the method according to any one of claims 1 to 3 or the method according to claim 7 or 8 is implemented.~~

~~2440. A computer-readable storage medium comprising instructions which, when executed by a computer, cause the computer to carry out the method according to any one of claims 9-14, wherein the computer-readable storage medium stores a computer program, and when the computer program is run, the method according to any one of claims 4 to 6 or the method according to claim 9 or 10 is implemented.~~

~~2541. 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 3 or the method according to claim 7 or 8.~~

~~2642. 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 9 to 14 to 6 or the method according to claim 9 or 10.~~

~~2743. A communication system, comprising the communication apparatus according to any one of claims 11-19 to 2613 and the communication apparatus according to any one of claims 14 27 to 1632.~~

~~28. A communication system, comprising the communication apparatus according to claim 17 or 18 and the communication apparatus according to claim 19 or 20.~~