

CLAIMS

1. A frequency domain resource determining method applied in a terminal device or a chip in the terminal device, wherein the terminal device is a reduced capability, REDCAP,-type terminal, the method comprising:

5 sending configuration information to a terminal device, wherein the configuration information is carried in system information block 1, SIB1 and the configuration information comprises configuration information of at least two frequency domain resources, and the at least two frequency domain resources comprise at least one first-type frequency domain resource and at least one second-type frequency domain resource;

10 wherein the first-type frequency domain resource is for a first-type terminal device to communicate with the network device, or the first-type frequency domain resource is for a first-type terminal device and a second-type terminal device to communicate with the network device;

 wherein the second-type terminal device is a REDCAP-type terminal and the second-type frequency domain resource is for the REDCAP-type terminal to communicate with the network
15 device;

 wherein when the first-type frequency domain resource is less than or equal to the maximum bandwidth which the REDCAP-type terminal supports, the REDCAP-type terminal can use the first-type frequency domain resource or the second-type frequency domain resource; and

 communicating with the terminal device by one of the at least two frequency domain
20 resources, wherein a maximum bandwidth which the second-type terminal device supports is less than a maximum bandwidth which the first-type terminal device supports.

2. The method according to claim 1, wherein the maximum bandwidth which the second-type terminal device supports is 5MHz, 10MHz, 20MHz or 40MHz.

3. The method according to claim 1 or 2, wherein the second-type frequency domain resource
25 is less than or equal to the maximum bandwidth which the second-type terminal device supports.

4. The method according to any one of claims 1 to 3, wherein the first-type frequency domain resource is used for the first-type terminal device and the second-type terminal device to communicate with the network device, wherein the first-type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

30 5. The method according to any one of claims 1 to 3, wherein the first-type frequency domain

resource is used for the first-type terminal device to communicate with the network device, wherein the first-type frequency domain resource is larger than the maximum bandwidth which the second-type terminal device supports.

5 6. The method according to any one of claims 1 to 5, wherein the first-type frequency domain resource is a first initial downlink bandwidth part (BWP), and the second-type frequency domain resource is a second initial downlink BWP.

7. A frequency domain resource determining method applied in a terminal device or a chip in the terminal device, wherein the terminal device is a reduced capability, REDCAP,-type terminal, the method comprising:

10 receiving configuration information from a network device, wherein the configuration information is carried in system information block 1, SIB1 and the configuration information comprises configuration information of at least two frequency domain resources, and the at least two frequency domain resources comprise at least one first-type frequency domain resource and at least one second-type frequency domain resource;

15 wherein the first-type frequency domain resource is for a first-type terminal device to communicate with the network device, or the first-type frequency domain resource is for a first-type terminal device and a second-type terminal device to communicate with the network device, wherein a maximum bandwidth which the second-type terminal device supports is less than a maximum bandwidth which the first-type terminal device supports; wherein the second-type
20 terminal device is a REDCAP-type terminal; and the second-type frequency domain resource is for the REDCAP-type terminal to communicate with the network device;

 determining one of the at least two frequency domain resources based on the configuration information;

 wherein when the first-type frequency domain resource is less than or equal to the maximum
25 bandwidth which the REDCAP-type terminal supports, the REDCAP-type terminal can use the first-type frequency domain resource or the second-type frequency domain resource; and

 communicating with the network device by one of the at least two frequency domain resources.

30 8. The method according to claim 7, wherein the maximum bandwidth which the second-type terminal device supports is 5MHz, 10MHz, 20MHz or 40MHz.

 9. The method according to claim 7 or 8, wherein the second-type frequency domain resource

is less than or equal to the maximum bandwidth which the second-type terminal device supports.

10. The method according to any one of claims 7 to 9, wherein determining one of the at least two frequency domain resources based on the configuration information comprises:

5 determining the second-type frequency domain resource based on the configuration information, wherein the first-type frequency domain resource is larger than the maximum bandwidth which the second-type terminal device supports.

11. The method according to any one of claims 7 to 9, wherein determining one of the at least two frequency domain resources based on the configuration information comprises:

10 determining the first-type frequency domain resource or the second-type frequency domain resource based on the configuration information, wherein the first-type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

12. The method according to any one of claims 7 to 11, wherein the first-type frequency domain resource is a first initial downlink bandwidth part (BWP), and the second-type frequency domain resource is a second downlink uplink BWP.

15 13. A communication apparatus, comprising a transceiver module, wherein

the transceiver module is configured to send configuration information to a terminal device, wherein the terminal device is a reduced capability, REDCAP,-type terminal, wherein the configuration information is carried in system information block 1, SIB1 and the configuration information comprises configuration information of at least two frequency domain resources, and
20 the at least two frequency domain resources comprise at least one first-type frequency domain resource and at least one second-type frequency domain resource;

wherein the first-type frequency domain resource is for a first-type terminal device to communicate with the network device, or the first-type frequency domain resource is for a first-type terminal device and a second-type terminal device to communicate with the network device;
25 and

wherein the second-type terminal device is a REDCAP-type terminal and the second-type frequency domain resource is for the REDCAP-type terminal to communicate with the network device;

wherein when the first-type frequency domain resource is less than or equal to the maximum
30 bandwidth which the REDCAP-type terminal supports, the REDCAP-type terminal can use the first-type frequency domain resource or the second-type frequency domain resource; and

the transceiver module is further configured to communicate with the terminal device by one of the at least two frequency domain resources, wherein a maximum bandwidth which the second-type terminal device supports is less than a maximum bandwidth which the first-type terminal device supports.

5 14. The communication apparatus according to claim 13, wherein the maximum bandwidth which the second-type terminal device supports is 5MHz, 10MHz, 20MHz or 40MHz.

15. The communication apparatus according to claim 13 or 14, wherein the second-type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

10 16. The communication apparatus according to any one of claims 13 to 15, wherein the first-type frequency domain resource is used for the first-type terminal device and the second-type terminal device to communicate with the network device, wherein the first-type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

15 17. The communication apparatus according to any one of claims 13 to 15, wherein the first-type frequency domain resource is used for the first-type terminal device to communicate with the network device, wherein the first-type frequency domain resource is larger than the maximum bandwidth which the second-type terminal device supports.

20 18. The communication apparatus according to any one of claims 13 to 17, wherein the first-type frequency domain resource is a first initial downlink bandwidth part (BWP), and the second-type frequency domain resource is a second initial downlink BWP.

19. A communication apparatus, wherein the apparatus is in a reduced capability, REDCAP,-type terminal, comprising a transceiver module and a processing module, wherein

25 the transceiver module is configured to receive configuration information from a network device, wherein the configuration information is carried in system information block 1, SIB1 and the configuration information comprises configuration information of at least two frequency domain resources, and the at least two frequency domain resources comprise at least one first-type frequency domain resource and at least one second-type frequency domain resource;

30 wherein the first-type frequency domain resource is for a first-type terminal device to communicate with the network device, or the first-type frequency domain resource is for a first-type terminal device and a second-type terminal device to communicate with the network device,

wherein a maximum bandwidth which the second-type terminal device supports is less than a maximum bandwidth which the first-type terminal device supports; wherein the second-type terminal device is a REDCAP-type terminal; and

the second-type frequency domain resource is for the REDCAP-type terminal to
5 communicate with the network device;

the processing module is configured to determine one of the at least two frequency domain resources based on the configuration information;

wherein when the first-type frequency domain resource is less than or equal to the maximum bandwidth which the REDCAP-type terminal supports, the REDCAP-type terminal can use the
10 first-type frequency domain resource or the second-type frequency domain resource; and

communicating with the network device by one of the at least two frequency domain resources.

20. The method according to claim 19, wherein the maximum bandwidth which the second-type terminal device supports is 5MHz, 10MHz, 20MHz or 40MHz.

15 21. The communication apparatus according to claim 19 or 20, wherein the second-type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

22. The communication apparatus according to any one of claims 19 to 21, wherein the processing module is configured to determine the second-type frequency domain resource based
20 on the configuration information, wherein the first-type frequency domain resource is larger than the maximum bandwidth which the second-type terminal device supports.

23. The communication apparatus according to any one of claims 19 to 21, wherein the processing module is configured to determine the first-type frequency domain resource or the second-type frequency domain resource based on the configuration information, wherein the first-
25 type frequency domain resource is less than or equal to the maximum bandwidth which the second-type terminal device supports.

24. The communication apparatus according to any one of claims 19 to 23, wherein the first-type frequency domain resource is a first initial downlink bandwidth part, BWP, and the second-type frequency domain resource is a second downlink uplink BWP.

30 25. A readable storage medium, wherein the readable storage medium stores executable instructions, and when at least one processor of an apparatus executes the executable instructions,

the apparatus performs the apparatus according to any one of claims 1 to 6.

26. A readable storage medium, wherein the readable storage medium stores executable instructions, and when at least one processor of an apparatus executes the executable instructions, the apparatus performs the method according to any one of claims 7 to 12.

5 27. A communication apparatus comprising a processor and a storage medium storing instructions for execution by the processor such that, when the instruction are executed, the processor is configured to cause the communication apparatus to carry out the method according to any one of claims 1 to 6.

10 28. A communication apparatus comprising a processor and a storage medium storing instructions for execution by the processor such that, when the instruction are executed, the processor is configured to cause the communication apparatus to carry out the method according to any one of claims 7 to 12.