

CLAIMS

1. A method for wireless communication, comprising:
 - 5 receiving, by a terminal device, a first bitmap from a network device, wherein the first bitmap is to indicate a time-domain resource allocated for the terminal device by the network device in a first frequency-domain resource unit; and
 - performing, by the terminal device, data transmission with the network device on the time-domain resource indicated by the first bitmap;
 - 10 wherein each bit in the first bitmap corresponds to at least one time-domain resource unit in the first frequency-domain resource unit, and a value of each bit in the first bitmap is to indicate whether the at least one time-domain resource unit corresponding to the bit is used for data transmission of the terminal device;
 - wherein each of bits in the first bitmap corresponds to a respective one of time-
 - 15 domain resource units in the first frequency-domain resource unit; and
 - wherein the time-domain resource unit comprises a symbol group.
2. The method of claim 1, wherein a sequence of bits in the first bitmap from left to right is consistent with a sequence of time-domain resource units in the first frequency-
- 20 domain resource unit.
3. The method of any one of claims 1-2, wherein the time-domain resource unit further comprises at least one of a symbol, a slot, or a mini-slot.
- 25 4. The method of any one of claims 1-3, further comprising:
 - receiving, by the terminal device, second indication information from the network device, wherein the second indication information is to indicate at least one frequency-domain resource unit allocated for the terminal device by the network device, and the at least one frequency-domain resource unit comprises the first frequency-
 - 30 domain resource unit.
5. The method of claim 4, wherein the second indication information is a third bitmap, each of bits in the third bitmap corresponds to a respective one of frequency-domain

resource units in a system bandwidth, and a value of each bit in the third bitmap is to indicate whether the frequency-domain resource unit corresponding to the bit is used for data transmission of the terminal device.

5 6. The method of claim 4, wherein the second indication information is to indicate a starting position of the at least one frequency-domain resource unit in a system bandwidth and a frequency-domain length of the at least one frequency-domain resource unit.

10 7. The method of any one of claims 1-6, wherein the frequency-domain resource unit comprises a physical resource block (PRB), a resource block group (RBG), or a sub-band.

8. A terminal device, comprising:

15 a first receiving unit, configured to receive a first bitmap from a network device, wherein the first bitmap is to indicate a time-domain resource allocated for the terminal device by the network device in a first frequency-domain resource unit; and

 a transmission unit, configured to perform data transmission with the network device on the time-domain resource indicated by the first bitmap;

20 wherein each bit in the first bitmap corresponds to at least one time-domain resource unit in the first frequency-domain resource unit, and a value of each bit in the first bitmap is to indicate whether the at least one time-domain resource unit corresponding to the bit is used for data transmission of the terminal device;

 wherein each of bits in the first bitmap corresponds to a respective one of time-domain resource units in the first frequency-domain resource unit; and

25 wherein the time-domain resource unit comprises a symbol group.

9. The terminal device of claim 8, wherein a sequence of bits in the first bitmap from left to right is consistent with a sequence of time-domain resource units in the first
30 frequency-domain resource unit.

10. The terminal device of any one of claims 8-9, wherein the time-domain resource

unit further comprises at least one of a symbol, a slot, or a mini-slot.

11. The terminal device of any one of claims 8-10, comprising:

5 a second receiving unit, configured to receive first indication information from the network device, wherein the first indication information is to indicate a time-domain resource not available for data transmission of the terminal device in the first frequency-domain resource unit,

wherein the transmission unit is specifically configured to:

10 perform data transmission with the network device on a time-domain resource, other than the time-domain resource indicated by the first indication information, in the time-domain resource indicated by the first bitmap.

12. The terminal device of claim 11, wherein the first indication information is a second bitmap, each bit in the second bitmap corresponds to at least one time-domain resource unit in the first frequency-domain resource unit, and a value of each bit in the second
15 bitmap is to indicate whether the at least one time-domain resource unit corresponding to the bit is used for data transmission of the terminal device.

13. The terminal device of any one of claims 8-12, comprising:

20 a third receiving unit, configured to receive second indication information from the network device, wherein the second indication information is to indicate at least one frequency-domain resource unit allocated for the terminal device by the network device, and the at least one frequency-domain resource unit comprises the first frequency-domain resource unit.

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14. The terminal device of claim 13, wherein the second indication information is a third bitmap, each of bits in the third bitmap corresponds to a respective one of frequency-domain resource units in a system bandwidth, and a value of each bit in the third bitmap is to indicate whether the frequency-domain resource unit corresponding
30 to the bit is use for data transmission of the terminal device.

15. The terminal device of claim 14, wherein the second indication information is to

indicate a starting position of the at least one frequency-domain resource unit in a system bandwidth and a frequency-domain length of the at least one frequency-domain resource unit.

- 5 16. The terminal device of any one of claims 8-15, wherein the frequency-domain resource unit comprises a physical resource block (PRB), a resource block group (RBG), or a sub-band.