

CLAIMS

1. A method for resource scheduling, comprising:

5 receiving, by a first terminal device, indication information and resource grant information from a network device and performing data duplication by the first terminal device, the resource grant information being used to indicate a granted resource allocated to the first terminal device by the network device, and the indication information being used to indicate that the granted resource may be
10 configured to transmit duplicated data and that the duplicated data is born on a target logical channel; and

transmitting, by the first terminal device, the duplicated data born on the target logical channel to a second terminal device through the granted resource according to the indication information and the resource grant information.

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2. The method of claim 1, wherein the indication information indicates that the granted resource is configured to transmit the duplicated data corresponding to different logical channels, the granted resource comprises a first granted resource and a second granted resource, the target logical channel comprises a first logical channel
20 and a second logical channel, and

transmitting, by the first terminal device, the duplicated data born on the target logical channel to the second terminal device through the granted resource according to the indication information and the resource grant information comprises:

25 transmitting, by the first terminal device, first data born on the first logical channel to the second terminal device through the first granted resource; and

transmitting, by the first terminal device, second data born on the second logical channel to the second terminal device through the second granted resource, the first data born on the first logical channel and the second data born on the second logical channel being same data.

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3. The method of claim 2, before transmitting, by the first terminal device, the duplicated data born on the target logical channel to the second terminal device through the granted resource according to the indication information and the resource grant information, further comprising:

determining, by the first terminal device, a first corresponding relationship between the first granted resource and a bearer of the first logical channel and a second corresponding relationship between the second granted resource and a bearer of the second logical channel.

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4. The method of claim 3, wherein determining, by the terminal device, the first corresponding relationship and the second corresponding relationship comprises:

receiving, by the first terminal device, information of a fourth corresponding relationship transmitted by the network device; and

10 determining, by the first terminal device, the first corresponding relationship and the second corresponding relationship according to the information of the fourth corresponding relationship.

5. A method for resource scheduling, comprising:

15 configuring, by a network device, a granted resource for a first terminal device, the granted resource being configured for the first terminal device to transmit data to a second terminal device; and

transmitting, by the network device, resource grant information and indication information to the first terminal device, the resource grant information being used to
20 indicate the granted resource and the indication information being used to indicate that the granted resource may be configured to transmit duplicated data and that the duplicated data is born on a target logical channel.

6. The method of claim 5, wherein the indication information indicates that the
25 granted resource is configured to transmit the duplicated data corresponding to different logical channels, the granted resource comprises a first granted resource and a second granted resource, the target logical channel comprises a first logical channel and a second logical channel,

the first granted resource is configured for the first terminal device to transmit
30 first data born on the first logical channel to the second terminal device, and the second granted resource is configured for the first terminal device to transmit second data born on the second logical channel to the second terminal device, the first data born on the first logical channel and the second data born on the second logical

channel being same data.

7. The method of claim 6, further comprising:

transmitting, by the network device, information of a fourth corresponding
5 relationship to the first terminal device, the information of the fourth corresponding relationship comprising a corresponding relationship between the first logical channel and the first granted resource and a corresponding relationship between the second logical channel and the second granted resource.

10 8. A terminal device, comprising:

a receiving unit, configured to receive indication information and resource grant information from a network device, wherein data duplication is performed by the terminal device, the resource grant information is used to indicate a granted resource allocated to the terminal device by the network device, and the indication
15 information is used to indicate that the granted resource may be configured to transmit duplicated data and that the duplicated data is born on a target logical channel; and

a transmitting unit, configured to transmit the duplicated data born on the target logical channel to a second terminal device through the granted resource according to the indication information and the resource grant information.

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9. The terminal device of claim 8, wherein the indication information indicates that the granted resource is configured to transmit the duplicated data corresponding to different logical channels, the granted resource comprises a first granted resource and a second granted resource, the target logical channel comprises a first logical channel
25 and a second logical channel, and

the transmitting unit is configured to:

transmit first data born on the first logical channel to the second terminal device through the first granted resource; and

transmit second data born on the second logical channel to the second
30 terminal device through the second granted resource, the first data born on the first logical channel and the second data born on the second logical channel being same data.

10. The terminal device of claim 9, further comprising:
- a determining unit, configured to, before the transmitting unit transmits the duplicated data born on the target logical channel to the second terminal device through the granted resource according to the indication information and the resource grant information, determine a first corresponding relationship between the first granted resource and a bearer of the first logical channel and a second corresponding relationship between the second granted resource and a bearer of the second logical channel.
11. The terminal device of claim 10, wherein the determining unit is configured to:
- determine a corresponding relationship between the first logical channel and a first carrier and a corresponding relationship between the second logical channel and a second carrier;
- the receiving unit is configured to:
- receive information of the first corresponding relationship transmitted by the network device; and
- the determining unit is configured to:
- determine a corresponding relationship between the first carrier and the first granted resource and a corresponding relationship between the second carrier and the second granted resource according to the information of the first corresponding relationship,
- determine the first corresponding relationship according to the corresponding relationship between the first logical channel and the first carrier and the corresponding relationship between the first carrier and the first granted resource and
- determine the second corresponding relationship according to the corresponding relationship between the second logical channel and the second carrier and the corresponding relationship between the second carrier and the second granted resource.
12. The terminal device of claim 11, wherein
- the receiving unit is configured to:
- receive information of the second corresponding relationship transmitted

by the network device; and

the determining unit is configured to:

determine the corresponding relationship between the first logical channel and the first carrier and the corresponding relationship between the second
5 logical channel and the second carrier according to the information of the second corresponding relationship.

13. The terminal device of claim 12, wherein the information of the second corresponding relationship comprises a corresponding relationship between a first
10 logical channel group and the first carrier, the first logical channel group comprises n logical channels, and the n logical channels comprise the first logical channel and do not comprise the second logical channel, n being a positive integer greater than 1; and/or,

the information of the second corresponding relationship comprises a
15 corresponding relationship between a second logical channel group and the second carrier, the second logical channel group comprise m logical channels, and the m logical channels comprise the second logical channel and do not comprise the first logical channel, m being a positive integer greater than 1.

20 14. The terminal device of claim 11, wherein the transmitting unit is configured to:

after the determining unit determines the corresponding relationship between the first logical channel and the first carrier and the corresponding relationship between the second logical channel and the second carrier, transmit information of a third corresponding relationship to the network device, the information of the third
25 corresponding relationship being for the network device to determine the corresponding relationship between the first logical channel and the first carrier and the corresponding relationship between the second logical channel and the second carrier; and

the receiving unit is configured to:

30 receive the information of the first corresponding relationship determined according to the third corresponding relationship from the network device.

15. The terminal device of claim 14, wherein the information of the third

corresponding relationship comprises a corresponding relationship between a third logical channel group and the first carrier, the third logical channel group comprises k logical channels, and the k logical channels comprise the first logical channel and do not comprise the second logical channel, k being a positive integer greater than 1;

5 and/or,

the information of the third corresponding relationship comprises a corresponding relationship between a fourth logical channel group and the second carrier, the fourth logical channel group comprise l logical channels, and the l logical channels comprise the second logical channel and do not comprise the first logical
10 channel, l being a positive integer greater than 1.

16. A network device, comprising:

a processing unit, configured to configure a granted resource for a first terminal device, the granted resource being configured for the first terminal device to
15 transmit data to a second terminal device; and

a transmitting unit, configured to transmit resource grant information and indication information to the first terminal device, the resource grant information being used to indicate the granted resource and the indication information being used to indicate that the granted resource may be configured to transmit duplicated data
20 and that the duplicated data is born on a target logical channel.

17. The network device of claim 16, wherein the indication information indicates that the granted resource is configured to transmit the duplicated data corresponding to different logical channels, the granted resource comprises a first granted resource
25 and a second granted resource, the target logical channel comprises a first logical channel and a second logical channel,

the first granted resource is configured for the first terminal device to transmit first data born on the first logical channel to the second terminal device, and the second granted resource is configured for the first terminal device to transmit second
30 data born on the second logical channel to the second terminal device, the first data born on the first logical channel and the second data born on the second logical channel being same data.

18. The network device of claim 17, wherein

the processing unit is configured to:

determine a corresponding relationship between the first logical channel
and a first carrier and a corresponding relationship between the second logical channel

5 and a second carrier; and

determine a corresponding relationship between the first carrier and the
first granted resource and a corresponding relationship between the second carrier and
the second granted resource according to the corresponding relationship between the
first logical channel and the first carrier and the corresponding relationship between
10 the second logical channel and the second carrier; and

the transmitting unit is configured to:

transmit information of a first corresponding relationship to the first
terminal device, the information of the first corresponding relationship being for the
first terminal device to determine the corresponding relationship between the first
15 carrier and the first granted resource and the corresponding relationship between the
second carrier and the second granted resource.

19. The network device of claim 18, wherein the transmitting unit is configured to:

after the processing unit determines the corresponding relationship between
20 the first logical channel and the first carrier and the corresponding relationship
between the second logical channel and the second carrier, transmit information of a
second corresponding relationship to the first terminal device, the information of the
second corresponding relationship being for the first terminal device to determine the
corresponding relationship between the first logical channel and the first carrier and
25 the corresponding relationship between the second logical channel and the second
carrier.

20. The network device of claim 19, wherein the information of the second
corresponding relationship comprises a corresponding relationship between a first
30 logical channel group and the first carrier, the first logical channel group comprises n
logical channels, and the n logical channels comprise the first logical channel and do
not comprise the second logical channel, n being a positive integer greater than 1;
and/or,

the information of the second corresponding relationship comprises a corresponding relationship between a second logical channel group and the second carrier, the second logical channel group comprise m logical channels, and the m logical channels comprise the second logical channel and do not comprise the first logical channel, m being a positive integer greater than 1.

21. The network device of claim 18, further comprising:

a receiving unit, configured to receive information of a third corresponding relationship transmitted by the first terminal device, wherein

the processing unit is configured to determine the corresponding relationship between the first logical channel and the first carrier and the corresponding relationship between the second logical channel and the second carrier according to the information of the third corresponding relationship.

22. The network device of claim 21, wherein the information of the third corresponding relationship comprises a corresponding relationship between a third logical channel group and the first carrier, the third logical channel group comprises k logical channels, and the k logical channels comprise the first logical channel and do not comprise the second logical channel, k being a positive integer greater than 1; and/or,

the information of the third corresponding relationship comprises a corresponding relationship between a fourth logical channel group and the second carrier, the fourth logical channel group comprise l logical channels, and the l logical channels comprise the second logical channel and do not comprise the first logical channel, l being a positive integer greater than 1.