CLAIMS

What is claimed is:

1. A resource determining method, comprising:

receiving, by a first terminal apparatus, first indication information from a second terminal apparatus, wherein the first indication information indicates the first terminal apparatus to determine a first resource for the second terminal apparatus;

determining, by the first terminal apparatus, the first resource for the second terminal apparatus based on the first indication information; and

indicating, by the first terminal apparatus, the first resource to the second terminal apparatus, wherein the first resource is used by the second terminal apparatus to send data.

2. The method according to claim 1, wherein the determining, by the first terminal apparatus, the first resource for the second terminal apparatus comprises:

determining, by the first terminal apparatus, the first resource for the second terminal apparatus based on first information, wherein the first information comprises a maximum value of a quantity of second terminal apparatuses that are allowed to communicate with the first terminal apparatus; a maximum value of a quantity of second terminal apparatuses for which the first terminal apparatus allows to determine the first resource; and/or a maximum capability value of determining the first resource by the first terminal apparatus.

3. The method according to claim 2, wherein

the maximum value and/or the maximum capability value are/is determined based on second information, the second information comprises the maximum value and/or the maximum capability value, and the second information comprises radio resource control (RRC) signaling;

the maximum value and/or the maximum capability value are/is predefined; or

the maximum value and/or the maximum capability value are/is determined based on capability information of the first terminal apparatus.

4. The method according to claim 1, wherein the method further comprises:

receiving, by the first terminal apparatus, third information from the second terminal apparatus, wherein the third information comprises at least one of the following: time of to-be-sent data of the second terminal apparatus, a size of the data, a time-frequency resource required by the data, a measurement result of a channel busy rate (CBR) or a channel occupancy rate (CR)

of the second terminal apparatus, or a quality of service (QoS) requirement of the data; and

determining, by the first terminal apparatus, the first resource for the second terminal apparatus based on the third information.

5. The method according to claim 1, wherein the indicating, by the first terminal apparatus, the first resource to the second terminal apparatus comprises:

sending, by the first terminal apparatus, fourth information to the second terminal apparatus, wherein the fourth information comprises the first resource and second indication information, and the second indication information indicates that the first resource is the first resource determined by the first terminal apparatus for the second terminal apparatus.

6. A resource determining method, comprising:

sending, by a second terminal apparatus, first indication information to a first terminal apparatus, wherein the first indication information indicates the first terminal apparatus to determine a first resource for the second terminal apparatus; and

receiving, by the second terminal apparatus, the first resource from the first terminal apparatus, wherein the first resource is used by the second terminal apparatus to send data.

7. The method according to claim 6, wherein the sending, by a second terminal apparatus, first indication information to a first terminal apparatus comprises:

when a first measurement result of the second terminal apparatus is less than a preset threshold, sending, by the second terminal apparatus, the first indication information to the first terminal apparatus, wherein the first measurement result is a result of network quality measured by the second terminal apparatus.

8. The method according to claim 6, wherein the method further comprises:

sending, by the second terminal apparatus, third information to the first terminal apparatus, wherein the third information comprises at least one of the following: time of to-be-sent data of the second terminal apparatus, a size of the data, a time-frequency resource required by the data, a measurement result of a channel busy rate (CBR) or a channel occupancy rate (CR) of the second terminal apparatus, or a quality of service (QoS) requirement of the data.

9. The method according to claim 6, wherein the receiving, by the second terminal apparatus, the first resource from the first terminal apparatus comprises:

receiving, by the second terminal apparatus, fourth information from the first terminal, wherein the fourth information comprises the first resource and second indication information, and

the second indication information indicates that the first resource is the first resource determined by the first terminal apparatus for the second terminal apparatus.

10. A first terminal apparatus, wherein the apparatus comprises:

a non-transitory memory storage comprising instructions; and

one or more hardware processors in communication with the non-transitory memory storage, wherein the one or more hardware processors execute the instructions to:

receive first indication information from a second terminal apparatus, wherein the first indication information indicates the first terminal apparatus to determine a first resource for the second terminal apparatus;

determine the first resource for the second terminal apparatus based on the first indication information; and

indicate the first resource to the second terminal apparatus, wherein the first resource is used by the second terminal apparatus to send data.

11. The method according to claim 10, wherein the one or more hardware processors execute the instructions to:

determine the first resource for the second terminal apparatus based on first information, wherein the first information comprises a maximum value of a quantity of second terminal apparatuses that are allowed to communicate with the first terminal apparatus; a maximum value of a quantity of second terminal apparatuses for which the first terminal apparatus allows to determine the first resource; and/or a maximum capability value of determining the first resource by the first terminal apparatus.

12. The method according to claim 11, wherein

the maximum value and/or the maximum capability value are/is determined based on second information, the second information comprises the maximum value and/or the maximum capability value, and the second information comprises radio resource control (RRC) signaling;

the maximum value and/or the maximum capability value are/is predefined; or

the maximum value and/or the maximum capability value are/is determined based on capability information of the first terminal apparatus.

13. The method according to claim 10, wherein the one or more hardware processors execute the instructions to:

receive third information from the second terminal apparatus, wherein the third information

comprises at least one of the following: time of to-be-sent data of the second terminal apparatus, a size of the data, a time-frequency resource required by the data, a measurement result of a channel busy rate (CBR) or a channel occupancy rate (CR) of the second terminal apparatus, or a quality of service (QoS) requirement of the data; and

determine the first resource for the second terminal apparatus based on the third information.

14. The method according to claim 10, wherein the one or more hardware processors execute the instructions to:

send fourth information to the second terminal apparatus, wherein the fourth information comprises the first resource and second indication information, and the second indication information indicates that the first resource is the first resource determined by the first terminal apparatus for the second terminal apparatus.

15. A second terminal apparatus, wherein the apparatus comprises:

a non-transitory memory storage comprising instructions; and

one or more hardware processors in communication with the non-transitory memory storage, wherein the one or more hardware processors execute the instructions to:

send first indication information to a first terminal apparatus, wherein the first indication information indicates the first terminal apparatus to determine a first resource for the second terminal apparatus; and

receive the first resource from the first terminal apparatus, wherein the first resource is used by the second terminal apparatus to send data.

16. The method according to claim 15, wherein the one or more hardware processors execute the instructions to:

when a first measurement result of the second terminal apparatus is less than a preset threshold, sending, by the second terminal apparatus, the first indication information to the first terminal apparatus, wherein the first measurement result is a result of network quality measured by the second terminal apparatus.

17. The method according to claim 15, wherein the one or more hardware processors execute the instructions to:

send third information to the first terminal apparatus, wherein the third information comprises at least one of the following: time of to-be-sent data of the second terminal apparatus, a size of the data, a time-frequency resource required by the data, a measurement result of a channel busy rate

(CBR) or a channel occupancy rate (CR) of the second terminal apparatus, or a quality of service (QoS) requirement of the data.

18. The method according to claim 15, wherein the one or more hardware processors execute the instructions to:

receive fourth information from the first terminal, wherein the fourth information comprises the first resource and second indication information, and the second indication information indicates that the first resource is the first resource determined by the first terminal apparatus for the second terminal apparatus.