CLAIMS

What is claimed is:

1. An information transmission method, applied to a first device, wherein the method comprises:

sending first information to at least one second device, wherein the first information is used to trigger the second device to transmit assistance information or used for performing resource selection or reservation by the second device.

2. The method according to claim 1, wherein the first information comprises at least one of the following information:

first information type indication information;

time domain resource indication information;

frequency domain resource indication information;

time information for transmitting the assistance information;

identification information of a first information sender;

identification information of a first information receiver; and

information about a to-be-transmitted service of the first device.

3. The method according to claim 2, wherein the information about the to-be-transmitted service of the first device comprises at least one of the following:

a data volume of the to-be-transmitted service;

delay information of the to-be-transmitted service;

a priority of the to-be-transmitted service;

a data rate of the to-be-transmitted service;

reliability of the to-be-transmitted service;

a service period of the to-be-transmitted service; and

a communication range requirement corresponding to the to-be-transmitted service.

4. The method according to claim 1, wherein the first information is carried in target information, and the target information comprises at least one of the following:

sidelink control information;

downlink control information;

radio resource control information;

direct link radio resource control information; and

sidelink feedback control information, wherein

the sidelink control information further comprises first-stage sidelink control information and second-stage sidelink control information.

5. The method according to claim 2, wherein the first information type indication information is used to indicate at least one of the following:

the first information is not trigger information for triggering transmission of the assistance information; and

the first information is trigger information for triggering transmission of the assistance information.

6. An information transmission method, applied to a second device, wherein the method comprises:

receiving first information sent by a first device, wherein the first information is used to trigger the second device to transmit assistance information or used for performing resource selection or reservation by the second device.

7. The method according to claim 6, wherein the first information comprises at least one of the following information:

first information type indication information;

time domain resource indication information;

frequency domain resource indication information;

time information for transmitting the assistance information;

identification information of a first information sender;

identification information of a first information receiver; and

information about a to-be-transmitted service of the first device.

8. The method according to claim 7, wherein the information about the to-be-transmitted service of the first device comprises at least one of the following:

a data volume of the to-be-transmitted service;

delay information of the to-be-transmitted service;

a priority of the to-be-transmitted service;

a data rate of the to-be-transmitted service;

reliability of the to-be-transmitted service;

a service period of the to-be-transmitted service; and

a communication range requirement corresponding to the to-be-transmitted service.

9. The method according to claim 6, wherein the first information is carried in target information, and the target information comprises at least one of the following:

sidelink control information;

downlink control information;

radio resource control information;

direct link radio resource control information; and

sidelink feedback control information, wherein

the sidelink control information further comprises first-stage sidelink control information and second-stage sidelink control information.

10. The method according to claim 7, wherein the first information type indication information is used to indicate at least one of the following:

the first information is not trigger information for triggering transmission of the assistance information; and

the first information is trigger information for triggering transmission of the assistance information.

11. An information transmission apparatus, applied to a first device and comprising:

a first sending module, configured to send first information to at least one second device, wherein the first information is used to trigger the second device to transmit assistance information or used for performing resource selection or reservation by the second device.

12. The apparatus according to claim 11, wherein the first information comprises at least one of the following information:

first information type indication information;

time domain resource indication information;

frequency domain resource indication information;

time information for transmitting the assistance information;

identification information of a first information sender;

identification information of a first information receiver; and

information about a to-be-transmitted service of the first device.

13. The apparatus according to claim 12, wherein the information about the to-be-transmitted service of the first device comprises at least one of the following:

a data volume of the to-be-transmitted service;

delay information of the to-be-transmitted service;

a priority of the to-be-transmitted service;

a data rate of the to-be-transmitted service;

reliability of the to-be-transmitted service;

a service period of the to-be-transmitted service; and

a communication range requirement corresponding to the to-be-transmitted service.

14. The apparatus according to claim 11, wherein the first information is carried in target information, and the target information comprises at least one of the following:

sidelink control information;

downlink control information;

radio resource control information;

direct link radio resource control information; and

sidelink feedback control information, wherein

the sidelink control information further comprises first-stage sidelink control information and second-stage sidelink control information.

15. The apparatus according to claim 12, wherein the first information type indication information is used to indicate at least one of the following:

the first information is not trigger information for triggering transmission of the assistance information; and

the first information is trigger information for triggering transmission of the

assistance information.

16. An information transmission apparatus, applied to a second device and comprising:

a first receiving module, configured to receive first information sent by a first device, wherein the first information is used to trigger the second device to transmit assistance information or used for performing resource selection or reservation by the second device.

17. The apparatus according to claim 16, wherein the first information comprises at least one of the following information:

first information type indication information;

time domain resource indication information;

frequency domain resource indication information;

time information for transmitting the assistance information;

identification information of a first information sender;

identification information of a first information receiver; and

information about a to-be-transmitted service of the first device.

18. The apparatus according to claim 17, wherein the information about the to-be-transmitted service of the first device comprises at least one of the following:

a data volume of the to-be-transmitted service;

delay information of the to-be-transmitted service;

a priority of the to-be-transmitted service;

a data rate of the to-be-transmitted service;

reliability of the to-be-transmitted service;

a service period of the to-be-transmitted service; and

a communication range requirement corresponding to the to-be-transmitted service.

19. The apparatus according to claim 16, wherein the first information is carried in target information, and the target information comprises at least one of the following:

sidelink control information;

downlink control information;

radio resource control information;

direct link radio resource control information; and

sidelink feedback control information, wherein

the sidelink control information further comprises first-stage sidelink control information and second-stage sidelink control information.

20. The apparatus according to claim 17, wherein the first information type indication information is used to indicate at least one of the following:

the first information is not trigger information for triggering transmission of the assistance information; and

the first information is trigger information for triggering transmission of the assistance information.