What is claimed is:

1. A method for determining a transmission mode of a sidelink, comprising:

sending, by a first terminal device, a first message to a network device, wherein the first message comprises group identifier information of a terminal device group where the first terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device,

receiving, by the~~a~~ first terminal device, first configuration information sent by a network device, wherein the first configuration information is used for indicating a first transmission mode;

determining, by the first terminal device, the first transmission mode in a plurality of transmission modes based on the first configuration information ; and

adopting, by the first terminal device, the first transmission mode to perform a sidelink communication with another terminal device;

wherein the first configuration information comprises: type information of unicast communication, multicast communication or broadcast communication, Quality of Service (QoS) attribute information, and the group identification information of the terminal device group where the first terminal is located;

wherein the transmission mode comprises: mode 1 or mode 2, wherein the mode 1 is that the network device allocates transmission resources for the first terminal device, the mode 2 is that the terminal device selects the transmission resources randomly or by sensing.

~~2. The method of claim 1, further comprising:~~

~~sending, by the first terminal device, a first message to the network device, wherein the first message comprises group identifier information of a terminal device group where the first terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device.~~

~~3~~2. The method of claim ~~2~~1, wherein the first message is carried in uplink control information, a Media Access Control Control Element (MAC CE), or a Radio Resource Control (RRC) signaling.

43. The method of claim 1 or 2 ~~or 3~~, wherein the first configuration information further comprises ~~at least one piece of following pieces of information:~~

~~the group identification information of the terminal device group where the first terminal is located,~~ the identification information of the second terminal device which performs unicast communication with the first terminal device~~, type information of unicast communication, multicast communication or broadcast communication, or Quality of Service (QoS) attribute information~~.

54. The method of any one of claims 1 to 3~~2 to 4~~, wherein the first configuration information is carried in broadcast information, or RRC signaling.

65. A method for determining a transmission mode of a sidelink, comprising:

receiving a first message sent by a first terminal device, wherein the first message comprises group identifier information of a terminal device group where the first terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device;

determining a first transmission mode in a plurality of transmission modes according to the first message; and

sending first configuration information to the first terminal device, wherein the first configuration information is used for indicating the first terminal device to adopt the first transmission mode to perform the sidelink communication with another terminal device;

wherein the first configuration information comprises: type information of unicast communication, multicast communication or broadcast communication, Quality of Service (QoS) attribute information, and the group identification information of the terminal device group where the first terminal is located;

wherein the transmission mode comprises: mode 1 or mode 2, wherein the mode 1 is that the network device allocates transmission resources for the first terminal device, the mode 2 is that the terminal device selects the transmission resources randomly or by sensing.

76. The method of claim 65, wherein the first message is carried in uplink control information, a Media Access Control Control Element (MAC CE), or a Radio Resource Control (RRC) signaling.

~~8~~7. The method of claim 5 or 6 ~~or 7~~, wherein the first configuration information further comprises ~~at least one piece of following pieces of information~~:

~~the group identification information of the terminal device group where the first terminal is located,~~ the identification information of the second terminal device which performs unicast communication with the first terminal device~~, type information of unicast communication, multicast communication or broadcast communication, or Quality of Service (QoS) attribute information~~.

~~9~~8. The method of any one of claims 5 to 7~~6 to 8~~, wherein the first configuration information is carried in broadcast information, or RRC signaling.

~~10~~9. A terminal device, comprising:

a transceiving unit configured to receive first configuration information sent by a network device, wherein the first configuration information is used for indicating a first transmission mode; and

a processing unit configured to determine the first transmission mode in a plurality of transmission modes based on the first configuration information;

wherein the transceiving unit is further configured to adopt the first transmission mode to perform a sidelink communication with another terminal device;

wherein the transceiving unit is further configured to:

send a first message to the network device, wherein the first message comprises group identifier information of a terminal device group where the terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device;

wherein the first configuration information comprises: type information of unicast communication, multicast communication or broadcast communication, Quality of Service (QoS) attribute information, and the group identification information of the terminal device group where the first terminal is located;

wherein the transmission mode comprises: mode 1 or mode 2, wherein the mode 1 is that the network device allocates transmission resources for the first terminal device, the mode 2 is that the terminal device selects the transmission resources randomly or by sensing.

~~11. The terminal device of claim 10, wherein the transceiving unit is further configured to:~~

~~send a first message to the network device, wherein the first message comprises group identifier information of a terminal device group where the terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device~~.

~~12~~10. The terminal device of claim ~~11~~9, wherein the first message is carried in uplink control information, a Media Access Control Control Element (MAC CE), or a Radio Resource Control (RRC) signaling.

~~13~~11. The terminal device of claim 9 or 10~~11 or 12~~, wherein the first configuration information further comprises~~ at least one piece of following information~~:

~~the group identification information of the terminal device group where the first terminal is located,~~ the identification information of the second terminal device which performs unicast communication with the first terminal device~~, type information of unicast communication, multicast communication or broadcast communication, or Quality of Service (QoS) attribute information~~.

~~14~~12. The terminal device of any one of claims 9 to 11~~ to 13~~, wherein the first configuration information is carried in broadcast information, or RRC signaling.

~~15~~13. A network device, comprising:

a transceiving unit configured to receive a first message sent by a first terminal device, wherein the first message comprises group identifier information of a terminal device group where the first terminal device is located, or identification information of a second terminal device, wherein the second terminal device is a terminal device which performs unicast communication with the first terminal device; and

a processing unit configured to determine a first transmission mode in a plurality of transmission modes according to the first message;

wherein the transceiving unit is configured to send first configuration information to the first terminal device, wherein the first configuration information is used for indicating the first terminal device to adopt the first transmission mode to perform a sidelink communication with another terminal device;

wherein the first configuration information comprises: type information of unicast communication, multicast communication or broadcast communication, Quality of Service

(QoS) attribute information, and the group identification information of the terminal device group where the first terminal is located;

wherein the transmission mode comprises: mode 1 or mode 2, wherein the mode 1 is that the network device allocates transmission resources for the first terminal device, the mode 2 is that the terminal device selects the transmission resources randomly or by sensing.

~~16~~14. The network device of claim ~~15~~13, wherein the first message is carried in uplink control information, a Media Access Control Control Element (MAC CE), or a Radio Resource Control (RRC) signaling.

~~17~~15. The network device of claim 13 or 14~~15 or 16~~, wherein the first configuration information further comprises~~ at least one piece of following information~~:

~~the group identification information of the terminal device group where the first terminal is located,~~ the identification information of the second terminal device which performs unicast communication with the first terminal device~~, type information of unicast communication, multicast communication or broadcast communication, or Quality of Service (QoS) attribute information~~.

~~18~~16. The network device of any one of claims 13 to 15~~ to 17~~, wherein the first configuration information is carried in broadcast information, or RRC signaling.