

CLAIMS

What is claimed is:

1. A radio bearer configuration method performed by a second terminal or a chip in the second terminal, the method comprising:

5 receiving a first message from a first terminal, wherein the first message comprises first configuration information of a sidelink radio bearer between the second terminal and the first terminal, and the first configuration information comprises information indicating that a radio link control RLC layer working mode of the sidelink radio bearer, or the first configuration information comprises information indicating that the RLC layer working mode of the sidelink radio bearer
10 and indicating the sidelink radio bearer is a bidirectional bearer;

establishing or configuring the sidelink radio bearer based on the first message; and

sending a third message to a network device when the sidelink radio bearer is the bidirectional bearer, wherein the third message comprises the first indication information.

2. The method according to claim 1, wherein the first configuration information comprises
15 the first indication information, and wherein the first indication information indicates that the radio link control RLC layer working mode of the sidelink radio bearer is an unacknowledged mode (UM).

3. The method according to claim 1, wherein the first configuration information comprises the first indication information, wherein the first indication information indicates that the radio
20 link control RLC layer working mode of the sidelink radio bearer is an acknowledged mode (AM).

4. The method according to any one of claims 1-3, wherein the third message further comprises a first identifier, the first identifier comprises a combination of a layer 2 identifier of the first terminal and a layer 2 identifier of the second terminal, or a specially defined ID used to identify a unicast connection between the first terminal and the second terminal.

25 5. The method according to claim 4, wherein the third message further comprises QoS information mapped to the sidelink radio bearer.

6. The method according to claim 5, wherein the QoS information comprises a QoS parameter and a quality of service flow identifier, and the QoS parameter comprises at least any one of the following parameters: a guaranteed transmission rate, a maximum transmission rate, a delay
30 requirement, a reliability requirement, a priority, or a communication distance.

7. The method according to any one of claims 4 to 6, wherein the method further comprises:
receiving a second configuration information from the network device after sending the third
message.

8. The method according to claim 7, wherein the second configuration information comprises
5 at least one of the following information:

an identifier of the sidelink radio bearer, configuration information of a PDCP entity in the
sidelink radio bearer, configuration information of an RLC entity in the sidelink radio bearer,
configuration information of a logical channel in the sidelink radio bearer, or an identifier of a
logical channel in the sidelink radio bearer.

10 9. The method according to any one of claims 1 to 8, wherein the first message further
comprises:

quality of service QoS information mapped to the sidelink radio bearer.

10. The method according to claim 9, wherein the QoS information comprises the quality of
service flow identifier.

15 11. The method according to any one of claims 1 to 10, wherein communications interfaces
of the first terminal and the second terminal are PC5 interfaces.

12. The method according to any one of claims 1 to 11, wherein the first configuration
information further comprises an identifier of the logical channel in the sidelink radio bearer, and
the identifier of the logical channel is allocated by the first terminal.

20 13. The method according to claim 8, wherein the first configuration information further
comprises at least any one of the following:

the identifier of the sidelink radio bearer, the configuration information of the PDCP entity in
the sidelink radio bearer, and the configuration information of the RLC entity in the sidelink radio
bearer.

25 14. The method according to any one of claims 1 to 13, wherein the first message is a sidelink
radio resource control reconfiguration message.

15. A terminal, comprising a memory, a processor, and a computer program that is stored in
the memory and that can be run on the processor, wherein the processor executes the program to
implement the method according to any one of claims 1 to 14.

30 16. A computer readable storage medium, comprising instructions, wherein when the
instructions are run on a computer, the computer is enabled to perform the method according to

any one of claims 1 to 14.

17. A program cause a processor to adapted to perform the method of any one of claims 1-14.