## CLAIMS

WHAT IS CLAIMED IS:

1. A method for determining a sidelink discontinuous reception configuration, performed by a user equipment, comprising:

determining a sidelink discontinuous reception (SL DRX) configuration mode according to a received serving cell message; and

determining to adopt a first SL DRX configuration mode by determining an SL DRX indicator being present in the serving cell message, wherein the SL DRX indicator being present in the serving cell message represents that a serving cell supports a SL DRX configuration.

2. The method according to claim 1, wherein,

the SL DRX indicator being absent in the serving cell message represents that the serving cell does not support the SL DRX configuration.

3. The method according to claim 1 or 2, further comprising:

determining to adopt a second SL DRX configuration mode by determining an SL DRX indicator being absent in the serving cell message;

wherein the SL DRX indicator being absent in the serving cell message comprises that:

a serving cell does not provide system information carrying SL DRX configuration; or

SL DRX configuration is absent in system information carrying sidelink configuration and sent by the serving cell.

4. The method according to any one of claims 1 to 3, wherein the SL DRX indicator comprises any one of:

an indicator of the SL DRX configuration for broadcast and multicast;

an indicator of configuration for SL DRX; or

an indicator of supporting a Sidelink DRX mechanism.

5. The method according to any one of claims 1 to 4, further comprising:

reporting received assistance information sent by a peer user equipment, wherein the user equipment is in a connected state and adopts the first SL DRX configuration mode.

6. The method according to any one of claims 1 to 5, further comprising:

reporting a received SL DRX configuration sent by a peer user equipment, wherein the user equipment is in a connected state and adopts the first SL DRX configuration mode, and accepts the received SL DRX configuration sent by the peer user equipment.

7. The method according to claim 3, further comprising:

not reporting received assistance information and/or SL DRX configuration sent by a peer user equipment, wherein the user equipment is in a connected state and adopts the second SL DRX configuration mode.

8. The method according to any one of claims 1 to 7, further comprising:

not sending SL DRX configuration to a peer user equipment, wherein the user equipment is in a connected state, and a Sidelink transmission mode between the user equipment and the peer user equipment is unicast.

9. The method according to any one of claims 1 to 8, further comprising:

determining the SL DRX configuration and sending the SL DRX configuration to a peer user equipment, wherein the user equipment is in a connected state, and a Sidelink transmission mode between the user equipment and the peer user equipment is unicast, and a resource selection mode of the user equipment adopts a self-selection mode.

10. The method according to any one of claims 1 to 9, further comprising:

not sending SL DRX configuration to a peer user equipment, wherein the user equipment is in a connected state, and a Sidelink transmission mode between the user equipment and the peer user equipment is unicast, and a sending resource of the user

equipment adopts a dynamic scheduling mode.

11. The method according to any one of claims 1 to 10, further comprising:

determining the SL DRX configuration and sending the SL DRX configuration to a peer user equipment, wherein the user equipment is in an idle or inactive state, and a Sidelink transmission mode between the user equipment and the peer user equipment is unicast.

12. The method according to any one of claims 1 to 11, further comprising:

not sending SL DRX configuration to a peer user equipment, wherein the user equipment is in an idle or inactive state, and a Sidelink transmission mode between the user equipment and the peer user equipment is unicast.

13. A method for determining a sidelink discontinuous reception configuration, performed by a network device, comprising:

sending a serving cell message to a user equipment, wherein the serving cell message is configured for the user equipment to determine a sidelink discontinuous reception (SL DRX) configuration mode; an SL DRX indicator being present in the serving cell message indicates that the user equipment adopts a first SL DRX configuration mode; the SL DRX indicator being present in the serving cell message represents that the serving cell supports a SL DRX configuration.

14. The method according to claim 13, wherein the SL DRX indicator being absent in the serving cell message represents that the serving cell does not support the SL DRX configuration; or

SL DRX indicator being absent in the serving cell message represents that the user equipment adopts a second SL DRX configuration mode;

wherein SL DRX indicator being absence in the serving cell message optionally comprises that:

a serving cell does not provide system information carrying SL DRX configuration; or

SL DRX configuration is absent in system information carrying sidelink

configuration and sent by the serving cell.

15. The method according to claim 13 or 14, wherein the SL DRX indicator comprises any one of:

an indicator of the SL DRX configuration for broadcast and multicast;

an indicator of configuration for SL DRX; or

an indicator of supporting a Sidelink DRX mechanism.

16. The method according to any one of claims 13 to 15, further comprising at least one of:

receiving assistance information sent by the user equipment, wherein the assistance information is reported to the network device by the user equipment when the user equipment is in a connected state and adopts the first SL DRX configuration mode, the assistance information is sent to the network device by a peer user equipment; or

receiving SL DRX configuration sent by the user equipment, wherein the SL DRX configuration is sent to the network device by a peer user equipment, and the SL DRX configuration is reported to the network device by the user equipment when the user equipment is in a connected state and adopts the first SL DRX configuration mode.

17. A user equipment, comprising:

a processing module, configured to determine a sidelink discontinuous reception (SL DRX) configuration mode according to a received serving cell message; and

determine to adopt a first SL DRX configuration mode by determining an SL DRX indicator being present in the serving cell message, wherein the SL DRX indicator being present in the serving cell message represents that a serving cell supports a SL DRX configuration.

18. A network device, comprising:

a transceiver module, configured to send a serving cell message to a user equipment, wherein the serving cell message is configured for the user equipment to determine a sidelink discontinuous reception (SL DRX) configuration mode; an SL

DRX indicator being present in the serving cell message indicates that the user equipment adopts a first SL DRX configuration mode; the SL DRX indicator being present in the serving cell message represents that the serving cell supports a SL DRX configuration.

19. A communication device, comprising a processor and a memory storing a computer program, wherein the processor is configured to execute the computer program stored on the memory, causing the device to perform the method according to any one of claims 1 to 12 or the method according to any one of claims 13 to 16.

20. A computer-readable storage medium storing instructions, wherein when the instructions are executed, the method according to any one of claims 1 to 12 or the method according to claim 13 to 16 is implemented.