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;

the method further comprising:

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

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 the 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 the SL DRX configuration; or

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

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

accepting the received SL DRX configuration sent by the peer user equipment, wherein the user equipment is in the connected state and adopts the first SL DRX configuration mode; and

reporting the received SL DRX configuration sent by the peer user equipment.

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

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

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

determining the SL DRX configuration and sending the SL DRX configuration to the peer user equipment, wherein the user equipment is in the 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.

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

not sending the SL DRX configuration to the peer user equipment, wherein the user equipment is in the 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.

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

determining the SL DRX configuration and sending the SL DRX configuration to the 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.

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

not sending the SL DRX configuration to the 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. 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;

wherein at least one of received assistance information or SL DRX configuration sent by a peer user equipment is not reported by the user equipment, the user equipment being in a connected state and adopting a second SL DRX configuration mode.

13. The method according to claim 12, 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

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

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

a serving cell does not provide system information carrying the SL DRX

configuration; or

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

14. The method according to claim 12 or 13, 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.

15. The method according to any one of claims 12 to 14, 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 the connected state and adopts the first SL DRX configuration mode, the assistance information is sent to the network device by the 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 the peer user equipment, and the SL DRX configuration is reported to the network device by the user equipment when the user equipment is in the connected state and adopts the first SL DRX configuration mode.

16. 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;

wherein the processing module is configured to, not report at least one of received assistance information or SL DRX configuration sent by a peer user equipment, wherein the user equipment is in a connected state and adopts a second SL DRX configuration

mode.

17. 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;

wherein at least one of received assistance information or SL DRX configuration sent by a peer user equipment is not reported by the user equipment, the user equipment being in a connected state and adopting a second SL DRX configuration mode.

18. 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 11 or the method according to any one of claims 12 to 15.

19. A computer-readable storage medium storing instructions, wherein when the instructions are executed, the method according to any one of claims 1 to 11 or the method according to claim 12 to 15 is implemented.