CLAIMS

WHAT IS CLAIMED IS:

1. A sidelink communication method, performed by a first terminal, comprising:

determining that the first terminal performs sidelink communication with a destination address based on a sidelink, and determining whether to not apply a limitation of sidelink discontinuous reception (DRX);

wherein determining whether to not apply the limitation of the sidelink DRX comprises:

determining whether a second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists; and

when it is determined that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists, determining to not apply the limitation of the sidelink DRX;

wherein determining whether the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists comprises:

obtaining sidelink DRX configuration;

transmitting the sidelink DRX configuration to the second terminal that performs the sidelink communication with the destination address; and

determining that at least one second terminal rejects the sidelink DRX configuration, and determining that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists.

2. The method according to claim 1, wherein determining whether the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists comprises:

determining a communication standard supported by the second terminal; and

determining that at least one second terminal does not support a communication protocol of a designated version, and determining that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists; wherein the designated version is a version that supports usage of the

sidelink DRX.

3. The method according to claim 1, wherein determining whether the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists comprises:

receiving system information broadcast by a designated cell; and

determining that the system information does not include a parameter for configuring the sidelink DRX, and determining that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists.

4. The method according to claim 1, wherein determining whether the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists comprises:

receiving system information broadcast by a designated cell; and

determining that the system information indicates that the designated cell does not support usage of the sidelink DRX, and determining that the second terminal that is unable to use the sidelink DRX exists.

5. The method according to claim 3 or 4, wherein the designated cell is a cell that matches a communication frequency of the sidelink communication.

6. The method according to claim 3 or 4, wherein the designated cell is at least one of a serving cell and a neighboring cell of the first terminal.

7. The method according to any of claims 1 to 6, wherein determining whether to not apply the limitation of the sidelink DRX comprises:

obtaining a service characteristic of the sidelink communication; and

determining that the service characteristic indicates that a service does not support the sidelink DRX, and determining to not apply the limitation of the sidelink DRX.

8. The method according to any of claims 1 to 6, wherein the first terminal is a data transmitting end, and the method further comprises:

in response to determining to not apply the limitation of the sidelink DRX, transmitting indication information to a base station, wherein the indication information indicates the base station to not apply the limitation of the sidelink DRX for data

transmission to the destination address.

9. The method according to any of claims 1 to 6, wherein the first terminal is a data transmitting end, and not applying the limitation of the sidelink DRX comprises:

not applying the limitation of the sidelink DRX while selecting a sidelink resource for transmitting data to the destination address.

10. The method according to any of claims 1 to 6, wherein the first terminal is a data transmitting end, and not applying the limitation of the sidelink DRX comprises:

receiving data transmitted to the destination address in response to not applying the limitation of the sidelink DRX.

11. The method according to any of claims 1 to 6, wherein the destination address is a destination address of sidelink broadcast or sidelink groupcast.

12. A sidelink communication apparatus, applied to a first terminal, comprising:

a communication module, configured to determine that the first terminal performs sidelink communication with a destination address based on a sidelink, and determine whether to not apply a limitation of sidelink discontinuous reception (DRX);

wherein the communication module is configured to:

determine whether a second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists; and

when it is determined that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists, determine to not apply the limitation of the sidelink DRX;

wherein the communication module is further configured to:

obtain sidelink DRX configuration;

transmit the sidelink DRX configuration to the second terminal that performs the sidelink communication with the destination address; and

determine that at least one second terminal rejects the sidelink DRX configuration, and determine that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists.

13. The apparatus according to claim 12, wherein the communication module is configured to:

determine a communication standard supported by the second terminal; and

determine that at least one second terminal does not support a communication protocol of a designated version, and determine that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists; wherein the designated version is a version that supports usage of the sidelink DRX.

14. The apparatus according to claim 12, wherein the communication module is configured to:

receive system information broadcast by a designated cell; and

determine that the system information does not includes a parameter for configuring the sidelink DRX, and determine that the second terminal that is unable to use the sidelink DRX and that performs sidelink communication with the destination address exists.

15. The apparatus according to claim 12, wherein the communication module is configured to:

receive system information broadcast by a designated cell; and

determine that the system information indicates that the designated cell does not support usage of the sidelink DRX, and determine that the second terminal that is unable to use the sidelink DRX exists.

16. A sidelink communication device, comprising:

a processor; and

a memory for storing a computer program executable by the processor;

wherein, when the computer program is executed by the processor, the sidelink communication method according to any one of claims 1 to 11 is performed.

17. A computer-readable storage medium having stored thereon a computer program that, when executed by a processor of a first terminal, causes the first terminal to perform the sidelink communication method according to any one of claims 1 to 11 are performed.