CLAIMS

What is claimed is:

1. A resource configuration method, applied to a control node and comprising:

sending resource configuration information to a first terminal, wherein the resource configuration information comprises offset information, and the offset information is to indicate an offset value between a reference point and a resource for transmitting target sidelink information, and the reference point comprises a physical sidelink feedback channel (PSFCH) corresponding to the target sidelink information;

wherein

the target sidelink information comprises first sidelink information, the first sidelink information is sidelink information corresponding to a sidelink transmission between the first terminal and a second terminal.

2. The method according to claim 1, wherein the resource configuration information comprises at least one of the following: resource information, period information, and association information.

3. The method according to claim 2, wherein the resource information comprises at least one of the following: at least one resource set identifier, at least one resource identifier, a quantity of bits carriable by the resource, a resource format, a frequency hopping mode, an occupied time domain resource, an occupied frequency domain resource, a time domain position, a frequency domain position, a quantity of occupied resources, a sequence, a spreading code, a cyclic shift, a start point of a time window, a period of a time window, and duration of a time window.

4. The method according to claim 2, wherein the period information comprises at least one of the following:

a period of a resource set for transmitting the target sidelink information;

a period of the resource for transmitting the target sidelink information;

a ratio of a period of a resource set for transmitting the target sidelink information to a period of a configured sidelink grant;

a ratio of a period of the resource for transmitting the target sidelink information to a period of a configured sidelink grant;

a ratio of a period of a resource set for transmitting the target sidelink information to a period of a first resource; and

a ratio of a period of the resource for transmitting the target sidelink information to a period of a first resource;

wherein the first resource is a feedback resource for obtaining the target sidelink information.

5. The method according to claim 2, wherein

the association information comprises at least one of the following:

an association relationship between the resource for transmitting the target sidelink information and a second resource, wherein the second resource is a feedback resource for obtaining the target sidelink information;

an association relationship between the resource for transmitting the target sidelink information and a sidelink transmission;

an association relationship between the resource for transmitting the target sidelink information and a sending terminal; and

an association relationship between the resource for transmitting the target sidelink information and a receiving terminal;

or,

the association relationship between the resource for transmitting the target sidelink information and the receiving terminal comprises:

an association relationship between an identifier of the resource for transmitting the target sidelink information and an identifier of the receiving terminal;

and/or

the association relationship between the resource for transmitting the target sidelink information and the sending terminal comprises:

an association relationship between an identifier of the resource for transmitting the target sidelink information and an identifier of the sending terminal.

6. The method according to claim 5, wherein the association relationship comprises at least one of the following:

a ratio of the resource for transmitting the target sidelink information to a third resource, wherein the third resource is a feedback resource for obtaining the target sidelink information;

a ratio of the resource for transmitting the target sidelink information to a resource for a sidelink transmission;

a ratio of the resource for transmitting the target sidelink information to a sending terminal; and

a ratio of the resource for transmitting the target sidelink information to a receiving terminal.

7. The method according to claim 1, wherein

in a case in which the resource is a resource of type 1, the configuring, for a first terminal, a resource for transmitting target sidelink information comprises at least one of the following:

configuring, for the first terminal, at least one resource set of type 1 for transmitting the target sidelink information; and

configuring, for the first terminal, at least one resource of type 1 for transmitting the target sidelink information, wherein

the resource of type 1 comprises at least one of a physical uplink control channel (PUCCH) resource and a physical sidelink feedback channel (PSFCH) resource;

or,

wherein in a case in which the resource is a resource of type 2, the configuring, for a first terminal, a resource for transmitting target sidelink information comprises at least one of the following:

configuring, for the first terminal, at least one configured grant for transmitting the target sidelink information; and

indicating, to the first terminal by using first scheduling signaling, a fourth resource for transmitting the target sidelink information, wherein the fourth resource comprises at least one of at least one resource set of type 2 and at least one resource of type 2, wherein

the resource of type 2 comprises at least one of a physical uplink shared channel (PUSCH) resource and a physical sidelink shared channel (PSSCH) resource.

8. The method according to claim 1, wherein the configuring, for a first terminal, a resource for transmitting target sidelink information comprises:

indicating, to the first terminal by using second scheduling signaling, a fifth resource for transmitting the target sidelink information, wherein

the second scheduling signaling is scheduling signaling used to schedule a sidelink transmission corresponding to the target sidelink information, and the fifth resource comprises at least one of at least one resource set and at least one resource.

9. The method according to claim 8, wherein the fifth resource comprises a resource determined based on a first target parameter, wherein

the first target parameter comprises at least one of the following:

a time domain resource occupied by the second scheduling signaling;

a reference signal carried by the second scheduling signaling;

a scrambling code of the second scheduling signaling;

an identifier carried by the second scheduling signaling;

a resource of the second scheduling signaling;

a resource range of the second scheduling signaling; and

a number of the second scheduling signaling.

10. An information transmission method, applied to a first terminal and comprising:

determining, based on obtained resource configuration information, a target resource for transmitting target sidelink information; and

transmitting the target sidelink information on the target resource, wherein

the resource configuration information comprises offset information, and the offset information is to indicate an offset value between a reference point and a resource for transmitting target sidelink information, and the reference point comprises a physical sidelink feedback channel (PSFCH) corresponding to the target sidelink information; and

the target sidelink information comprises first sidelink information, the first sidelink information is sidelink information corresponding to a sidelink transmission between the first terminal and a second terminal.

11. The method according to claim 10, wherein the resource configuration information comprises at least one of the following: resource information, period information, and association information.

12. The method according to claim 11, wherein the resource information comprises at least one of the following: at least one resource set identifier, at least one resource identifier, a quantity of bits carriable by the resource, a resource format, a frequency hopping mode, an occupied time domain resource, an occupied frequency domain resource, a time domain position, a frequency domain position, a quantity of occupied resources, a sequence, a spreading code, a cyclic shift, a start point of a time window, a period of a time window, and duration of a time window.

13. The method according to claim 11, wherein the period information comprises at least one of the following:

a period of a resource set for transmitting the target sidelink information;

a period of the resource for transmitting the target sidelink information;

a ratio of a period of a resource set for transmitting the target sidelink information to a period of a configured sidelink grant;

a ratio of a period of the resource for transmitting the target sidelink information to a period of a configured sidelink grant;

a ratio of a period of a resource set for transmitting the target sidelink information to a period of a first resource; and

a ratio of a period of the resource for transmitting the target sidelink information to a period of a first resource, wherein

the first resource is a feedback resource for obtaining the target sidelink information.

14. The method according to claim 11, wherein

the association information comprises at least one of the following:

an association relationship between the resource for transmitting the target sidelink information and a second resource, wherein the second resource is a feedback resource for obtaining the target sidelink information;

an association relationship between the resource for transmitting the target sidelink information and a sidelink transmission;

an association relationship between the resource for transmitting the target sidelink information and a sending terminal; and

an association relationship between the resource for transmitting the target sidelink information and a receiving terminal;

or,

the association relationship between the resource for transmitting the target sidelink information and the receiving terminal comprises:

an association relationship between an identifier of the resource for transmitting the target sidelink information and an identifier of the receiving terminal;

and/or

an association relationship between an identifier of the resource for transmitting the target sidelink information and an identifier of the sending terminal.

15. The method according to claim 14, wherein the association relationship comprises at least one of the following:

a ratio of the resource for transmitting the target sidelink information to a third resource, wherein the third resource is a feedback resource for obtaining the target sidelink information;

a ratio of the resource for transmitting the target sidelink information to a resource for a sidelink transmission;

a ratio of the resource for transmitting the target sidelink information to a sending terminal; and

a ratio of the resource for transmitting the target sidelink information to a receiving terminal.

16. The method according to claim 10, wherein in a case in which the target sidelink information is sidelink information corresponding to a sidelink transmission corresponding to a configured sidelink grant, the target resource comprises one of the following:

M resources closest to a first reference point, wherein M is a positive integer;

a resource that is offset from a second reference point by a target offset value;

a resource whose period is the same as a period of the configured sidelink grant;

a resource whose period is a least common multiple of a period of the configured sidelink grant; and

a resource whose period is a greatest common divisor of a period of the configured sidelink grant.

17. The method according to claim 16, wherein

in a case in which the target sidelink information is sidelink information corresponding to a sidelink transmission corresponding to a configured sidelink grant type 1, the target resource comprises one of the following:

a resource that is offset by a first offset time from a first transmission position of a redundancy version (RV) 0 starting from a first target moment, wherein the transmission position comprises at least one of a transmission occasion and a frequency domain position;

a resource that is offset by a second offset time from a start point or an end point of an i^{th} period starting from a first target moment; and

a resource that is offset by a third offset time from a last transmission occasion of an i^{th} period starting from a first target moment, wherein

the first target moment is a first preset moment or a moment when the configured sidelink grant type 1 takes effect, and i is a positive integer;

or,

wherein in a case in which the target sidelink information is sidelink information corresponding to a sidelink transmission corresponding to a configured sidelink grant type 2, the target resource comprises one of the following:

a resource that is offset by a fourth offset time starting from a second target moment;

a resource that is offset by a fifth offset time from a first transmission occasion of a redundancy version (RV) 0 starting from a second target moment;

a resource that is offset by a sixth offset time from a start point or an end point of a j^{th} period starting from a second target moment; and

a resource that is offset by a seventh offset time from a last transmission position of a j^{th} period starting from a second target moment, wherein the transmission position comprises at least one of a transmission occasion and a frequency domain position, wherein

the second target moment is a moment when the configured sidelink grant of type 2 is activated, and j is a positive integer.

18. A control node, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, steps of the resource configuration method according to any one of claims 1 to 9 are implemented.

19. A terminal, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, to cause the terminal to implement:

determining, based on obtained resource configuration information, a target resource for transmitting target sidelink information; and

transmitting the target sidelink information on the target resource, wherein

the resource configuration information comprises offset information, and the offset information is to indicate an offset value between a reference point and a resource for transmitting target sidelink information, and the reference point

comprises a physical sidelink feedback channel (PSFCH) corresponding to the target sidelink information; and

the target sidelink information comprises first sidelink information, the first sidelink information is sidelink information corresponding to a sidelink transmission between the first terminal and a second terminal.

20. The terminal according to claim 19, wherein in a case in which the target sidelink information is sidelink information corresponding to a sidelink transmission corresponding to a configured sidelink grant, the target resource comprises one of the following:

M resources closest to a first reference point, wherein M is a positive integer;

a resource that is offset from a second reference point by a target offset value;

a resource whose period is the same as a period of the configured sidelink grant;

a resource whose period is a least common multiple of a period of the configured sidelink grant; and

a resource whose period is a greatest common divisor of a period of the configured sidelink grant.