

WHAT IS CLAIMED IS:

1. A method for data transmission in Internet of vehicles (IoV), characterized in comprising:

receiving, by a first terminal, first control information sent by a second terminal, the first control information being used for determining resource information used for multiple sidelink (SL) transmissions; and

determining, by the first terminal according to the first control information, resource used for the multiple SL transmissions.

~~2. The method according to claim 1,~~ wherein the resource information used for multiple SL transmissions comprises time-domain resource information and/or frequency-domain resource information used for the multiple SL transmissions.

~~3. The method according to claim 2,~~ wherein the first control information comprises first index information, the first index information being used for indicating time-domain resource information corresponding to each transmission of the multiple transmissions, and

~~4. The method according to claim 3,~~ wherein the determining, by the first terminal according to the first control information, resource used for the multiple SL transmissions comprises:

determining, by the first terminal according to the first index information and a first correspondence, time-domain resource used for the multiple transmissions, the first correspondence being a correspondence between index information and time-domain resource information.

~~5~~2. The method according to claim ~~4~~1, further comprising:

determining, by first terminal according to the first index information, a number of transmissions of the multiple transmissions, wherein time-domain resource corresponding to the first index information is a time unit used for the multiple transmissions.

~~6~~3. The method according to claim ~~2~~1, wherein the first control information comprises second configuration information, the second configuration information being used for determining a time offset of each transmission of the multiple transmissions relative to a certain boundary, and the determining, by the first terminal according to the first control information, resource used for the multiple SL transmissions comprises:

determining, by the first terminal according to the time offset of the each transmission relative to the certain boundary with the certain boundary as a reference, time-domain resource used for the each transmission.

~~74~~. The method according to claim ~~63~~, wherein the certain boundary is a time unit determined according to a time unit carrying the first control information, or an initial time unit of a current radio frame, or an initial time unit of a current radio frame period.

~~85~~. The method according to any one of claims ~~2-1~~ to ~~74~~, wherein the first control information comprises third configuration information, the third configuration information being used for determining length information of frequency-domain resource for each transmission of the multiple SL transmissions.

~~96~~. The method according to claim ~~85~~, wherein the first control information comprises fourth configuration information, the fourth configuration information being used for determining a frequency-domain start position for each transmission of the multiple transmissions, and the determining, by the first terminal according to the first control information, resource used for the multiple SL transmissions comprises:

determining, by the first terminal, the length information of frequency-domain resource for each transmission of the multiple SL transmissions according to the third configuration information, and the frequency-domain start position for each transmission of the multiple transmissions according to the fourth configuration information; and

determining, by the first terminal according to the frequency-domain start position and the length information of frequency-domain resource for each transmission of the multiple transmissions, the frequency-domain resource for the each transmission of the multiple transmissions.

~~107~~. The method according to any one of claims 1 to ~~96~~, wherein the first control information is sidelink control information (SCI), and the SL comprises a physical sidelink control channel (PSCCH) and/or a physical sidelink shared channel (PSSCH).

~~118~~. A terminal device, characterized in comprising:

a communication module, configured to receive first control information sent by a second terminal, the first control information being used for determining resource information used for multiple sidelink (SL) transmissions; and

a determination module, configured to determine, according to the first control information, resource used for the multiple SL transmissions~~7,1~~.

~~12. The terminal device according to claim 11,~~ wherein the resource information used for multiple SL transmissions comprises time-domain resource information and/or frequency-domain resource information used for the multiple SL transmissions~~7,2~~.

~~13. The terminal device according to claim 12,~~ wherein the first control information comprises first index information, the first index information being used for indicating time-domain resource information corresponding to each transmission of the multiple transmissions~~7,1~~ and

~~14. The terminal device according to claim 13,~~ wherein the determination module is further configured to:

determine, according to the first index information and a first correspondence, time-domain resource used for the multiple transmissions, the first correspondence being a correspondence between index information and time-domain resource information.

~~159.~~ The terminal device according to claim ~~148~~, wherein the determination module is further configured to:

determine, according to the first index information, a number of transmissions of the multiple transmissions, wherein time-domain resource corresponding to the first index information is a time unit used for the multiple transmissions.

~~1610.~~ The terminal device according to claim ~~128~~, wherein the first control information comprises second configuration information, the second configuration information being used for determining a time offset of each transmission of the multiple transmissions relative to a certain boundary, and the determination module is further configured to:

determine, according to the time offset of the each transmission relative to the certain boundary with the certain boundary as a reference, time-domain resource used for the each transmission.

~~1711.~~ The terminal device according to claim ~~1610~~, wherein the certain boundary is a time unit determined according to a time unit carrying the first control information, or an initial time unit of a current radio frame, or an initial time unit of a current radio frame period.

~~1812.~~ The terminal device according to any one of claims ~~12-8~~ to ~~1711~~, wherein the first

control information comprises third configuration information, the third configuration information being used for determining length information of frequency-domain resource for each transmission of the multiple SL transmissions.

1913. The terminal device according to claim **1812**, wherein the first control information comprises fourth configuration information, the fourth configuration information being used for determining a frequency-domain start position for each transmission of the multiple transmissions, and the determination module is further configured to:

determine the length information of frequency-domain resource for each transmission of the multiple SL transmissions according to the third configuration information, and determine the frequency-domain start position for each transmission of the multiple transmissions according to the fourth configuration information; and

determine, according to the frequency-domain start position and the length information of frequency-domain resource for each transmission of the multiple transmissions, the frequency-domain resource for the each transmission of the multiple transmissions.

2014. The terminal device according to any one of claims **11-8** to **1913**, wherein the first control information is sidelink control information (SCI), and the SL comprises a physical sidelink control channel (PSCCH) and/or a physical sidelink shared channel (PSSCH).