CLAIMS

1. A wireless communication method, wherein the method is applied to device to device communication, comprising:

acquiring, by a terminal device, configuration information, wherein the configuration information is used to indicate a correspondence between at least one second type carrier and at least one first type carrier system;

determining, by the terminal device, according to the configuration information, the at least one first type carrier system;

~~determining, by a terminal device, according to configuration information, to~~ transmitting, by the terminal device, data on the at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system,

wherein an attribute of the first type carrier system comprises radio access technology, RAT, information and at least one first type carrier ~~the configuration information indicates a correspondence between the at least one second type carrier and the at least one first type carrier system~~, the~~a~~ first type carrier is configured to transmit the transmission parameter over downlink, and the second type carrier is configured to transmit data over sidelink.

~~2. The method according to claim 1, wherein an attribute of the first type carrier system comprises the at least one first type carrier.~~

~~3~~2. The method according to claim ~~2~~1, wherein the attribute of the first type carrier system further comprises at least one of public land mobile network, PLMN, information, ~~radio access technology, RAT, information,~~ or geographic location information.

~~4~~3. The method according to claim 2, wherein the RAT information is for a long term evolution, LTE, communication network, or for a fifth generation new radio, 5G NR, communication network.

~~5~~4. The method according to any one of claims 1 to ~~4~~3, wherein the at least one second type carrier comprises a second type carrier X and a second type carrier Y, the at least one first type carrier system comprises a first type carrier system Z, and the second type carrier X and the second type carrier Y correspond to the first type carrier system Z;

the transmitting, by the terminal device, data on the at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system ~~determining, by a terminal device, according to configuration information, to transmit data on at least one second type carrier according to a transmission parameter corresponding to at least one first type carrier system~~, comprises:

transmitting, by the terminal device, data on the second type carrier X and the second type carrier Y according to a transmission parameter corresponding to the first type carrier system Z.

~~6~~5. The method according to any one of claims 1 to ~~4~~3, wherein the at least one second type carrier comprises a second type carrier M and a second type carrier N, and the at least one first type carrier system comprises a first type carrier system U and a first type carrier system V, the second type carrier M corresponds to the first type carrier system U, and the second type carrier N corresponds to the first type carrier system V;

the transmitting, by the terminal device, data on the at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system ~~determining, by a terminal device, according to configuration information, to transmit data on at least one second type carrier according to a transmission parameter corresponding to at least one first type carrier system~~, comprises:

transmitting, by the terminal device, data on the second type carrier M according to a transmission parameter corresponding to the first type carrier system U, and data on the second type carrier N according to a transmission parameter corresponding to the first type carrier system V.

~~7~~6. The method according to claim ~~6~~5, wherein the method further comprises:

determining, by the terminal device, according to at least one of the PLMN information, the RAT information, or the geographic location information, whether it is within coverage of the first type carrier system U and whether it is within coverage of the first type carrier system V.

~~8~~7. The method according to claim ~~7~~6, wherein the transmitting, by the terminal device, data on the second type carrier M according to a transmission parameter corresponding to the first type carrier system U, and data on the second type carrier N according to a transmission

parameter corresponding to the first type carrier system V, comprises:

determining, by the terminal device, that it is within the coverage of the first type carrier system U, and is not within the coverage of the first type carrier system V;

transmitting, by the terminal device, data on the second type carrier M according to the transmission parameter corresponding to the first type carrier system U; and

transmitting, by the terminal device, data on the second type carrier N according to a pre-configured transmission parameter for the second type carrier; or, transmitting, by the terminal device, data on the second type carrier N according to a pre-configured transmission parameter for the second type carrier N.

98. The method according to claim 76, wherein the transmitting, by the terminal device, data on the second type carrier M according to a transmission parameter corresponding to the first type carrier system U, and data on the second type carrier N according to a transmission parameter corresponding to the first type carrier system V, comprises:

determining, by the terminal device, that it is neither within the coverage of the first type carrier system U, nor within the coverage of the first type carrier system V;

transmitting, by the terminal device, data on the second type carrier M and on the second type carrier N according to a pre-configured transmission parameter for the second type carrier; or, transmitting, by the terminal device, data on the second type carrier M according to a pre-configured transmission parameter for the second type carrier M, and data on the second type carrier N according to a pre-configured transmission parameter for the second type carrier N.

109. The method according to claim 76, wherein the transmitting, by the terminal device, data on the second type carrier M according to a transmission parameter corresponding to the first type carrier system U, and data on the second type carrier N according to a transmission parameter corresponding to the first type carrier system V, comprises:

determining, by the terminal device, that it is within both the coverage of the first type carrier system U and the coverage of the first type carrier system V;

transmitting, by the terminal device, data on the second type carrier M according to the transmission parameter corresponding to the first type carrier system U and on the second type carrier N according to the transmission parameter corresponding to the first type carrier system V.

~~11~~10. The method according to any one of claims 1 to ~~10~~9, wherein:

the terminal device is an access layer of the terminal device, and the acquiring, by the terminal device, the configuration information~~before determining, by the terminal device, according to the configuration information, to transmit data on the at least one second type carrier according to the transmission parameter corresponding to the at least one first type carrier system, the method further~~ comprises: receiving, by the access layer of the terminal device, the configuration information from a higher layer of the terminal device; or

the acquiring, by the terminal device, the configuration information~~before determining, by the terminal device, according to the configuration information, to transmit data on the at least one second type carrier according to the transmission parameter corresponding to the at least one first type carrier system, the method further~~ comprises: receiving, by the terminal device, the configuration information from the network device.

~~12~~11. A wireless communication method, wherein the method is applied to device to device communication, comprising:

transmitting, by a network device, configuration information to a terminal device wherein the configuration information is used for~~to enable~~ the terminal device to determine~~, according to the configuration information, to transmit data on at least one second type carrier according to a transmission parameter corresponding to~~ at least one first type carrier system and transmit data on at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system,

wherein the configuration information is used to indicate~~s~~ a correspondence between the at least one second type carrier and the at least one first type carrier system, an attribute of the first type carrier system comprises radio access technology, RAT, information and at least one first type carrier, the~~a~~ first type carrier is configured to transmit the transmission parameter over downlink, and the second type carrier is configured to transmit data over sidelink.

~~13~~12. A terminal device, wherein the terminal device is applied to device to device communication, and the terminal device comprises:

a receiving unit, configured to acquire configuration information, wherein the configuration information is used to indicate a correspondence between at least one second type carrier and at least one first type carrier system; and

a processing unit, configured to determine, according to the configuration information, ~~to transmit data on at least one second type carrier according to a transmission parameter corresponding to~~ the at least one first type carrier system and transmit data on the at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system,

wherein an attribute of the first type carrier system comprises radio access technology, RAT, information and at least one first type carrier~~the configuration information indicates a correspondence between the at least one second type carrier and the at least one first type carrier system~~, the~~a~~ first type carrier is configured to transmit the transmission parameter over downlink, and the second type carrier is configured to transmit data over sidelink.

~~14~~13. A network device, wherein the network device is applied to device to device communication, and the network device comprises:

a transmitting unit, configured to transmit configuration information to a terminal device, wherein the configuration information is used for ~~to enable~~ the terminal device to determine~~,~~ ~~according to the configuration information, to transmit data on at least one second type carrier according to a transmission parameter corresponding to~~ at least one first type carrier system and transmit data on at least one second type carrier according to a transmission parameter corresponding to the at least one first type carrier system, wherein,

the configuration information is used to indicate~~s~~ a correspondence between the at least one second type carrier and the at least one first type carrier system, an attribute of the first type carrier system comprises radio access technology, RAT, information and at least one first type carrier, the~~a~~ first type carrier is configured to transmit the transmission parameter over downlink, and the second type carrier is configured to transmit data over sidelink.

~~15~~14. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store a computer program that causes a computer to execute the method according to any one of claims 1 to ~~11~~10.