CLAIMS

1. A transmission method for a remote terminal UE, comprising:

obtaining configuration parameters for a PC5 interface for transmission of relay service from a network-side device or relay UE; and

establishing, based on the obtained configuration parameters, a sidelink radio bearer SLRB and performing data transmission.

2. The transmission method for remote UE according to claim 1, wherein the obtaining configuration parameters for a PC5 interface for transmission of relay service from a network-side device or relay UE comprises any one of the following:

obtaining the configuration parameters for the PC5 interface for transmission of relay service through a system information block SIB of the network-side device if the remote UE is in an idle state or inactive state;

obtaining the configuration parameters for the PC5 interface for transmission of relay service through a pre-configured message of the network-side device if the remote UE is in an offline state;

obtaining the configuration parameters for the PC5 interface for transmission of relay service from the network-side device through a Uu radio resource control RRC message if the remote UE is in a connected state; and

obtaining the configuration parameters for the PC5 interface for transmission of relay service from the relay UE through a PC5 RRC message if the remote UE is in an idle state, inactive state, offline state, or connected state.

3. The transmission method for remote UE according to claim 2, wherein in the SIB and pre-configured message, the configuration parameters for the PC5 interface for transmission of relay service comprise a sidelink SL radio bearer RB configuration list and an SL radio link layer control protocol RLC bearer configuration list, the SLRB configuration list comprises at least one SLRB configuration and an index index of the at least one SLRB configuration; and the SL RLC bearer configuration list comprises at least one RLC bearer configuration, an index of the at least one RLC bearer

configuration, and an index of an SLRB configuration corresponding to the index of the RLC bearer configuration.

4. The transmission method for remote UE according to claim 3, wherein the SLRB configuration list comprises a first SLRB configuration list for UE-to-UE direct PC5 communication and a second SLRB configuration list for communication between the remote UE and the network-side device through the relay UE; and

the SL RLC bearer configuration list comprises a first RLC bearer configuration list for UE-to-UE direct PC5 communication and a second RLC bearer configuration list for communication between the remote UE and the network-side device through the relay UE.

5. The transmission method for remote UE according to claim 3, wherein the SLRB configuration comprises a plurality of SLRB configuration parameters, and at least one of the plurality of SLRB configuration parameters comprises a first SLRB configuration value for UE-to-UE direct PC5 communication and a second SLRB configuration value for communication between the remote UE and the network-side device through the relay UE; and

the RLC bearer configuration comprises a plurality of RLC configuration parameters, and at least one of the plurality of RLC configuration parameters comprises a first RLC bearer configuration value for UE-to-UE direct PC5 communication and a second RLC bearer configuration value for communication between the remote UE and the network-side device through the relay UE.

6. The transmission method for remote UE according to claim 3, wherein the SLRB configuration list comprises SLRB configurations for UE-to-UE direct PC5 communication, and the establishing, based on the obtained configuration parameters, an SLRB and performing data transmission comprises:

updating quality of service QoS parameters of a to-be-initiated service according to a protocol specification or a first updating parameter configured by the network-side device; and

looking up an SLRB configuration and an RLC bearer configuration by using the updated QoS parameters.

7. The transmission method for remote UE according to claim 3, wherein the SLRB configuration list comprises SLRB configurations for UE-to-UE direct PC5 communication, and the establishing, based on the obtained configuration parameters, an SLRB and performing data transmission comprises:

looking up, based on QoS parameters of a to-be-initiated service, an SLRB configuration and an RLC bearer configuration that match the QoS parameters;

updating parameters in a found SLRB configuration and a found RLC bearer configuration according to a protocol specification or a second updating parameter configured by the network-side device; and

establishing an SLRB based on the updated parameters and performing data transmission.

8. The transmission method for remote UE according to claim 6 or 7, wherein the looking up, based on QoS parameters, an SLRB configuration and an RLC bearer configuration comprises:

looking up, based on the QoS parameters, an SLRB configuration matching the QoS parameters in the SLRB configuration list, looking up, based on an index of the SLRB configuration, an index of a corresponding RLC bearer configuration, looking up, based on the index of the RLC bearer configuration, the corresponding RLC bearer configuration, and establishing, based on the found SLRB configuration and the found RLC bearer configuration, an SLRB and performing data transmission; and

using a default SLRB as a configured SLRB to perform data transmission if no SLRB configuration matching the QoS parameters is found in the SLRB configuration list.

9. The transmission method for remote UE according to claim 2, wherein before the obtaining the configuration parameters for the PC5 interface for transmission of relay service through a PC5 RRC message, the method further comprises:

transmitting QoS parameters of a to-be-initiated service to the relay UE.

10. The transmission method for remote UE according to claim 2, wherein before the obtaining the configuration parameters for the PC5 interface for transmission of relay service through a Uu RRC message, the method further comprises:

transmitting QoS parameters of a to-be-initiated service and relay indication information to the network-side device.

11. The transmission method for remote UE according to claim 3, wherein the SLRB configuration comprises at least one of the following:

an SL service data adaptation protocol SDAP configuration parameter;

an SL packet data convergence protocol PDCP configuration parameter; and

a transmission range configuration parameter; and

the RLC bearer configuration comprises at least one of the following:

an RLC configuration parameter;

a medium access control MAC configuration parameter; and

a physical layer configuration parameter.

12. A configuration method for a remote terminal UE, comprising:

transmitting configuration parameters for a PC5 interface for transmission of relay service to the remote UE through a PC5 radio resource control RRC message.

13. The configuration method for remote UE according to claim 12, wherein before the transmitting configuration parameters for a PC5 interface for transmission of relay service to the remote UE through a PC5 RRC message, the method further comprises:

receiving quality of service QoS parameters of a to-be-initiated service transmitted by the remote UE;

reporting the QoS parameters of the to-be-initiated service of the remote UE to a network-side device;

receiving configuration information transmitted by the network-side device through a Uu interface, wherein the configuration information comprises configuration information for relay UE and/or configuration information for the remote UE; and

generating, based on the configuration information transmitted by the network-side device, configuration parameters for the PC5 interface for transmission of relay service.

14. The transmission method for remote UE according to claim 13, wherein the generating, based on the configuration information transmitted by the network-side

device, configuration parameters for the PC5 interface for transmission of relay service comprises any one of the following:

generating, based on configuration information of the remote UE, the configuration parameters for the PC5 interface for transmission of relay service if the configuration information transmitted by the network-side device comprises the configuration information of the remote UE; and

generating, based on configuration information of relay UE, the configuration parameters for the PC5 interface for transmission of relay service if the configuration information transmitted by the network-side device comprises the configuration information of the relay UE.

15. A configuration method for a remote terminal UE, comprising:

transmitting configuration parameters for a PC5 interface for transmission of relay service to the remote UE through any one of the following manners:

transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a system information block SIB of a network-side device;

transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a pre-configured message;

transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a Uu radio resource control RRC message; and

forwarding the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through relay UE.

16. The configuration method for remote UE according to claim 15, wherein before the transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a Uu RRC message, the method further comprises:

receiving quality of service QoS parameters of a to-be-initiated service reported by the remote UE; and

determining, based on the QoS parameters, configuration parameters for the PC5 interface for transmission of relay service.

or,

~~17. The configuration method for remote UE according to claim 15,~~ wherein before the forwarding the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through relay UE, the method further comprises:

receiving the quality of service QoS parameters of the to-be-initiated service of the remote UE reported by the relay UE; and

determining, based on the QoS parameters, configuration parameters for the PC5 interface for transmission of relay service.

~~18~~17. The configuration method for remote UE according to claim 15, wherein in the SIB and pre-configured message, the configuration parameters for the PC5 interface for transmission of relay service comprise a sidelink SL radio bearer RB configuration list and an SL radio link layer control protocol RLC bearer configuration list, the SLRB configuration list comprises at least one SLRB configuration and an index index of the at least one SLRB configuration; and the SL RLC bearer configuration list comprises at least one RLC bearer configuration, an index of the at least one RLC bearer configuration, and an index of an SLRB configuration corresponding to the index of the RLC bearer configuration.

~~19~~18. The configuration method for remote UE according to claim ~~18~~17, wherein the SLRB configuration list comprises a first SLRB configuration list for UE-to-UE direct PC5 communication and a second SLRB configuration list for communication between the remote UE and the network-side device through the relay UE; and

the SL RLC bearer configuration list comprises a first RLC bearer configuration list for UE-to-UE direct PC5 communication and a second RLC bearer configuration list for communication between the remote UE and the network-side device through the relay UE~~.~~,

or,

~~20. The configuration method for remote UE according to claim 18,~~ wherein

the SLRB configuration comprises a plurality of SLRB configuration parameters, and at least one of the plurality of SLRB configuration parameters comprises a first

SLRB configuration value for UE-to-UE direct PC5 communication and a second SLRB configuration value for communication between the remote UE and the network-side device through the relay UE; and

the RLC bearer configuration comprises a plurality of RLC configuration parameters, and at least one of the plurality of RLC configuration parameters comprises a first RLC bearer configuration value for UE-to-UE direct PC5 communication and a second RLC bearer configuration value for communication between the remote UE and the network-side device through the relay UE.

~~21. The configuration method for remote UE according to claim 18, wherein the SLRB configuration list comprises SLRB configurations for UE-to-UE direct PC5 communication, and the method further comprises any one of the following:~~

~~transmitting a first updating parameter for updating QoS parameters of a to-be-initiated service to the remote UE; and~~

~~transmitting a second updating parameter for updating parameters in a found SLRB configuration and a found RLC bearer configuration to the remote UE.~~

~~22. The configuration method for remote UE according to claim 18, wherein the SLRB configuration comprises at least one of the following:~~

~~an SL service data adaptation protocol SDAP configuration parameter;~~

~~an SL packet data convergence protocol PDCP configuration parameter; and~~

~~a transmission range configuration parameter; and~~

~~the RLC bearer configuration comprises at least one of the following:~~

~~an RLC configuration parameter;~~

~~a medium access control MAC configuration parameter; and~~

~~a physical layer configuration parameter.~~

~~23. A transmission apparatus of a remote terminal UE, comprising:~~

~~an obtaining module, configured to obtain configuration parameters for a PC5 interface for transmission of relay service from a network-side device or relay UE; and~~

~~a transmission module, configured to establish, based on the obtained configuration parameters, a sidelink radio bearer SLRB and perform data transmission.~~

~~24. The transmission apparatus of remote UE according to claim 23, wherein the obtaining module is specifically configured to perform any one of the following operations:~~

~~obtaining the configuration parameters for the PC5 interface for transmission of relay service through a system information block SIB of the network-side device if the remote UE is in an idle state or inactive state;~~

~~obtaining the configuration parameters for the PC5 interface for transmission of relay service through a pre-configured message of the network-side device if the remote UE is in an offline state;~~

~~obtaining the configuration parameters for the PC5 interface for transmission of relay service from the network-side device through a Uu radio resource control RRC message if the remote UE is in a connected state; and~~

~~obtaining the configuration parameters for the PC5 interface for transmission of relay service from the relay UE through a PC5 RRC message if the remote UE is in an idle state, inactive state, offline state, or connected state.~~

~~25. The transmission apparatus of remote UE according to claim 24, wherein in the SIB and pre-configured message, the configuration parameters for the PC5 interface for transmission of relay service comprise a sidelink SL radio bearer RB configuration list and an SL radio link layer control protocol RLC bearer configuration list, the SLRB configuration list comprises at least one SLRB configuration and an index index of the at least one SLRB configuration; and the SL RLC bearer configuration list comprises at least one RLC bearer configuration, an index of the at least one RLC bearer configuration, and an index of an SLRB configuration corresponding to the index of the RLC bearer configuration.~~

~~26. The transmission apparatus of remote UE according to claim 25, wherein the SLRB configuration list comprises a first SLRB configuration list for UE-to-UE direct PC5 communication and a second SLRB configuration list for communication between the remote UE and the network-side device through the relay UE; and~~

~~the SL RLC bearer configuration list comprises a first RLC bearer configuration list for UE-to-UE direct PC5 communication and a second RLC bearer configuration~~

~~list for communication between the remote UE and the network-side device through the relay UE.~~

~~27. The transmission apparatus of remote UE according to claim 25, wherein the SLRB configuration comprises a plurality of SLRB configuration parameters, and at least one of the plurality of SLRB configuration parameters comprises a first SLRB configuration value for UE-to-UE direct PC5 communication and a second SLRB configuration value for communication between the remote UE and the network-side device through the relay UE; and~~

~~the RLC bearer configuration comprises a plurality of RLC configuration parameters, and at least one of the plurality of RLC configuration parameters comprises a first RLC bearer configuration value for UE-to-UE direct PC5 communication and a second RLC bearer configuration value for communication between the remote UE and the network-side device through the relay UE.~~

~~28. The transmission apparatus of remote UE according to claim 25, wherein the transmission module is specifically configured to: update quality of service QoS parameters of a to-be-initiated service according to a protocol specification or a first updating parameter configured by the network-side device; and look up an SLRB configuration and an RLC bearer configuration by using the updated QoS parameters.~~

~~29. The transmission apparatus of remote UE according to claim 25, wherein the transmission module is specifically configured to: look up, based on QoS parameters of a to-be-initiated service, an SLRB configuration and an RLC bearer configuration that match the QoS parameters; update parameters in a found SLRB configuration and a found RLC bearer configuration according to a protocol specification or a second updating parameter configured by the network-side device; and establish an SLRB based on the updated parameters and perform data transmission.~~

~~30. A configuration apparatus for a remote terminal UE, comprising:~~

~~a first sending module, configured to transmit configuration parameters for a PC5 interface for transmission of relay service to the remote UE through a PC5 radio resource control RRC message.~~

~~31. The configuration apparatus for remote UE according to claim 30, further comprising:~~

~~a receiving module, configured to receive quality of service QoS parameters of a to-be-initiated service transmitted by the remote UE; wherein~~

~~the first sending module is further configured to report the QoS parameters of the to-be-initiated service of the remote UE to a network-side device; and~~

~~the receiving module is further configured to: receive configuration information transmitted by the network-side device through a Uu interface, wherein the configuration information comprises configuration information for relay UE and/or configuration information for the remote UE; and generate, based on the configuration information transmitted by the network-side device, configuration parameters for the PC5 interface for transmission of relay service.~~

~~32. A configuration apparatus for a remote terminal UE, comprising:~~

~~a second sending module, configured to transmit configuration parameters for a PC5 interface for transmission of relay service to the remote UE through any one of the following manners:~~

~~transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a system information block SIB of a network-side device;~~

~~transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a pre-configured message;~~

~~transmitting the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through a Uu radio resource control RRC message; and~~

~~forwarding the configuration parameters for the PC5 interface for transmission of relay service to the remote UE through relay UE.~~

~~33. The configuration apparatus for remote UE according to claim 32, further comprising:~~

~~a first receiving module, configured to receive quality of service QoS parameters of a to-be-initiated service reported by the remote UE; and~~

~~a first processing module, configured to determine, based on the QoS parameters, configuration parameters for the PC5 interface for transmission of relay service.~~

~~34. The configuration apparatus for remote UE according to claim 32, further comprising:~~

~~a second receiving module, configured to receive the quality of service QoS parameters of the to-be-initiated service of the remote UE reported by the relay UE; and~~

~~a second processing module, configured to determine, based on the QoS parameters, configuration parameters for the PC5 interface for transmission of relay service.~~

~~35. The configuration apparatus for remote UE according to claim 32, wherein the second receiving module is further configured to perform any one of the following operations:~~

~~transmitting a first updating parameter for updating QoS parameters of a to-be-initiated service to the remote UE; and~~

~~transmitting a second updating parameter for updating parameters in a found SLRB configuration and a found RLC bearer configuration to the remote UE.~~

~~36~~19. An electronic device, comprising a processor, a memory, and a program or instruction stored in the memory and capable of running on the processor, wherein when the program or instruction is executed by the processor, the steps of the method according to any one of claims 1 to ~~22~~ 18 are implemented.

~~37~~20. A readable storage medium, wherein the readable storage medium stores a program or instruction, and when the program or instruction is executed by a processor, the steps of the method according to any one of claims 1 to ~~22~~ 18 are implemented.

~~38. A chip, wherein the chip comprises a processor and a communications interface, the communications interface is coupled to the processor, the processor is configured to run a program or instruction to implement the steps of the method according to any one of claims 1 to 22.~~

~~39. A computer program product, stored in a readable storage medium, wherein when the program product is executed by at least one processor, the steps of the method according to any one of claims 1 to 22 are implemented.~~

~~40. A terminal, wherein the terminal is configured to perform the steps of the method according to any one of claims 1 to 22.~~