

WHAT IS CLAIMED IS:

1. A method for processing data, for a first user equipment (UE), comprising:
 - determining a second UE based on logical channel priorities of logical channels corresponding to sidelink data radio bearers (SL-DRBs) of data to be transmitted; and
 - determining a medium-access-control protocol data unit (MAC PDU) for transmitting to the second UE,
 - wherein the MAC PDU comprises data to be transmitted in one or more sidelink radio bearers (SL-RBs) determined based on logical channel priorities of logical channels corresponding to SL-RBs of the second UE, and the SL-RBs of the second UE comprise SL-DRB(s) of the second UE;
 - wherein determining the medium-access-control protocol data unit (MAC PDU) for transmitting to the second UE comprises:
 - determining the logical channel priorities of the logical channels corresponding to the SL-RBs of the second UE;
 - determining data to be transmitted in the one or more SL-RBs based on an order of the logical channel priorities from high to low; and
 - determining the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs; or
 - determining logical channel priorities of logical channels corresponding to SL-RBs of the second UE whose bucket capacity is greater than 0;
 - determining data to be transmitted in the one or more SL-RBs based on an order of the logical channel priorities from high to low; and
 - determining the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs.
2. The method as claimed in claim 1, wherein the logical channel corresponding to the SL-DRB has a logical channel identifier and the logical channel identifier is defined by a communication protocol or configured by a network side.

3. The method as claimed in claim 1, wherein determining the second UE based on the logical channel priorities of the logical channels corresponding to the SL-DRBs comprises:

determining the logical channel priorities of the logical channels corresponding to the SL-DRBs of the data to be transmitted; and

determining, a UE corresponding to a logical channel with a highest logical channel priority in the logical channels corresponding to the SL-DRBs of the data to be transmitted, as the second UE.

4. The method as claimed in claim 3, wherein determining the second UE based on the logical channel priorities of the logical channels corresponding to the SL-DRBs comprises:

determining logical channel priorities of logical channels corresponding to SL-DRBs of the data to be transmitted whose bucket capacity is greater than 0;

determining, a UE corresponding to a logical channel with a highest logical channel priority in the logical channels corresponding to the SL-DRBs of the data to be transmitted whose bucket capacity is greater than 0, as the second UE.

5. The method as claimed in claim 1, wherein determining the MAC PDU for transmitting to the second UE further comprises:

in response to data to be transmitted in the SL-RBs of the second UE whose bucket capacity is greater than 0 being all carried in the MAC PDU and the MAC PDU still having a remaining capacity, determining data to be transmitted in the one or more SL-RBs based on an order of logical channel priorities of logical channels corresponding to SL-SBs of the second UE from high to low; and

determining the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs.

6. The method as claimed in claim 1, wherein a MAC sideline shared channel (SL-SCH) sub-header of the MAC PDU comprises an SL layer 2 identifier of the second UE.

7. An apparatus for processing data, for a first user equipment (UE), comprising:

a first determining module configured to determine a second UE based on logical channel priorities of logical channels corresponding to sidelink data radio bearers (SL-DRBs) of data to be transmitted; and

a second determining module configured to determine a medium-access-control protocol data unit (MAC PDU) for transmitting to the second UE,

wherein the MAC PDU comprises data to be transmitted in one or more sidelink radio bearers (SL-RBs) determined based on logical channel priorities of logical channels corresponding to SL-RBs of the second UE, and the SL-RBs of the second UE comprise SL-DRB(s) of the second UE;

wherein the second determining module is configured to: determine the logical channel priorities of the logical channels corresponding to the SL-RBs of the second UE;

determine data to be transmitted in the one or more SL-RBs based on an order of the logical channel priorities from high to low; and

determine the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs; or

determine logical channel priorities of logical channels corresponding to SL-RBs of the second UE whose bucket capacity is greater than 0;

determine data to be transmitted in the one or more SL-RBs based on an order of the logical channel priorities from high to low; and

determine the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs.

8. The apparatus as claimed in claim 7, wherein the logical channel corresponding to the SL-DRB has a logical channel identifier and the logical channel identifier is defined by a communication protocol or configured by a network side.

9. The apparatus as claimed in claim 7, wherein the first determining module is configured to determine the logical channel priorities of the logical channels corresponding to the SL-DRBs of the data to be transmitted; and determine, a UE corresponding to a logical channel with a highest logical channel priority in the logical channels corresponding to the SL-DRBs

of the data to be transmitted, as the second UE.

10. The apparatus as claimed in claim 7, wherein the first determining module is configured to determine logical channel priorities of logical channels corresponding to SL-DRBs of the data to be transmitted whose bucket capacity is greater than 0; determine, a UE corresponding to a logical channel with a highest logical channel priority in the logical channels corresponding to the SL-DRBs of the data to be transmitted whose bucket capacity is greater than 0, as the second UE.

11. The apparatus as claimed in claim 7, wherein the second determining module is further configured to, in response to data to be transmitted in the SL-RBs of the second UE whose bucket capacity is greater than 0 being all carried in the MAC PDU and the MAC PDU still having a remaining capacity, determine data to be transmitted in the one or more SL-RBs based on an order of logical channel priorities of logical channels corresponding to SL-SBs of the second UE from high to low; and determine the MAC PDU for transmitting to the second UE based on the data to be transmitted in the one or more SL-RBs.

12. The apparatus as claimed in claim 7, wherein a MAC sideline shared channel (SL-SCH) sub-header of the MAC PDU comprises an SL layer 2 identifier of the second UE.

13. A user equipment, comprising:

a transceiver;

a memory; and

a processor, respectively connected to the transceiver and the memory, configured to control the transceiver to transmit and receive wireless signals and perform the method as claimed in any of claims 1 to 6 by executing computer-executable instructions stored in the memory.

14. A computer storage medium storing computer-executable instructions, wherein when the computer-executable instructions are executed by a processor, the method as claimed in any

one of claims 1 to 6 is performed.