CLAIMS

What is claimed is:

1. A message transmission method, applied to a terminal and comprising:

transmitting a first discovery message in a sidelink (SL), wherein

the first discovery message is transmitted between an upper layer and a MAC layer through a logical channel, and a priority of the first discovery message is determined based on the logical channel and/or a corresponding bearer, for use in transmitting the first discovery message;

wherein the first discovery message is transmitted between the upper layer and the MAC layer through a logical channel means that the first discovery message is transmitted between the upper layer and the MAC layer through a signaling radio bearer, SRB; and

the first discovery message and a first message in the SL are transmitted through at least two SRBs, the first message in the SL comprises RRC signaling in the SL and a PC5 signaling message in the SL, the first discovery message, the RRC signaling in the SL and the PC5 signaling message in the SL has a same priority.

2. The method according to claim 1, wherein in a case that the first discovery message is transmitted between the upper layer and the MAC layer through a control logical channel, the priority of the first discovery message is a priority of the SRB or the control logical channel that transmits the first discovery message.

3. The method according to claim 2, wherein in a case that the control logical channel comprises SRBs with different priorities, the first discovery message and a message in the SL are transmitted on SRBs with different priorities on the control logical channel, the priority of the first discovery message is the priority of the SRB that transmits the first discovery message, and the message in the SL comprises at least one of RRC signaling in the SL and a PC5 signaling message in the SL.

4. The method according to claim 1, wherein in a case that the first discovery message is transmitted between the upper layer and the MAC layer through a control logical channel, the priority of the first discovery message is determined based on the following:

a first message in a UL has a first priority, the first message and the first discovery message in the SL have a second priority, a second message in the UL and a second message in the SL have a third priority, the first priority is higher than or equal to the second priority, and the second priority is higher than the third priority.

5. The method according to claim 4, wherein

the second message in the SL comprises data in the SL.

6. The method according to claim 1, wherein the first discovery message is transmitted on a first SRB, the RRC signaling in the SL is transmitted on the first SRB or a second SRB, a third SRB used for the PC5 signaling message in the SL is configured by using RRC signaling in the SL, and if establishment of the third SRB is completed, the PC5 signaling message in the SL is transmitted on the third SRB.

7. The method according to claim 4, wherein a plurality of messages with the third priority are transmitted on a DRB;

at least two of the plurality of messages with the third priority have different priorities; and

when the plurality of messages with the third priority cannot be sent simultaneously, based on a priority order, messages with higher priorities are preferentially sent or some of the plurality of messages with the third priority are preferentially discarded.

8. The method according to claim 4, wherein the priority of the second message in the UL is different from the priority of the second message in the SL; and

if a priority value of the second message in the UL is lower than a first threshold, the second message in the UL is preferential; if the priority value of the second message in the UL is not lower than the first threshold, and the priority value of the second message in the SL is lower than a second threshold, the second message in the SL is preferential; or if the priority value of the second message in the UL is not lower than the first threshold, and the priority value of the second message in the SL is not lower than the second threshold, the second message in the UL is preferential;

or

if the priority value of the second message in the SL is lower than a first threshold, the second message in the SL is preferential; if the priority value of the second message in the SL is not lower than the first threshold, and the priority value of the second message in the UL is lower than a second threshold, the second message in the UL is preferential; or if the priority value of the second message in the SL is not lower than the first threshold, and the priority value of the second message in the UL is not lower than the second threshold, the second message in the SL is preferential;

or

if the priority value of the second message in the SL is lower than a first threshold, and the priority value of the second message in the UL is not lower than a second threshold, the second message in the SL is preferential; or if the priority value of the second message in the SL is not lower than a first threshold, and the priority value of the second message in the UL is lower than a second threshold, the second message in the UL is preferential;

or

if the priority value of the second message in the SL is not lower than a first threshold, and the priority value of the second message in the UL is lower than a second threshold, the second message in the UL is preferential; or if the priority value of the second message in the SL is lower than a first threshold, and the priority value of the second message in the UL is not lower than a second threshold, the second message in the SL is preferential;

or

in a first case, the second message in the SL is preferential; in a second case, the second message in the UL is preferential; or in cases other than the first case and the second case, the priority of the second message in the SL and the priority of the second message in the UL are determined by the terminal, wherein the first case is: the priority value of the second message in the SL is lower than a first threshold, and the priority value of the second message in the UL is not lower than a second threshold; and the second case is: the priority value of the second message in the SL is not lower than the first threshold, and the priority value of the second message in the UL is lower than the second threshold.

9. The method according to claim 4, wherein in priorities of the first discovery message, a priority of sending the first discovery message is higher than a priority of receiving the first discovery message; and/or

in priorities of the second message in the UL, a priority of sending the second message in the UL is higher than a priority of receiving the second message in the UL; and/or

in priorities of the second message in the SL, a priority of sending the second message in the SL is higher than a priority of receiving the second message in the SL.

10. A terminal, comprising a memory, a processor, and a program stored in the memory and capable of running on the processor, wherein when the program is executed by the processor, steps of the message transmission method according to any one of claims 1 to 9 are implemented.

11. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, steps of the message transmission method according to any one of claims 1 to 9 are implemented.