CLAIMS

1. A communication method, comprising:

determining a media access control MAC subpacket data unit subPDU, wherein the MAC subPDU comprises a radio resource control RRC message, the RRC message comprises an uplink common control channel UL CCCH message, a UL CCCH1 message, or an uplink dedicated control channel UL DCCH message, a header of the MAC subPDU comprises a logical channel identity LCID field, and the MAC subPDU comprises a first field; and

sending the MAC subPDU, wherein

when values of the first field are different, meanings represented by the LCID field are determined based on different LCID tables.

2. The method according to claim 1, wherein that the MAC subPDU comprises the first field comprises:

the header of the MAC subPDU comprises the first field; or the RRC message comprises the first field;

and wherein if the first field is carried in the header of the MAC subPDU, a size of the header of the MAC subPDU is one byte, a size of the LCID field is six bits, and a size of the first field is one bit or two bits.

3. The method according to claim 1 or 2, wherein the LCID table is a correspondence between an index value of the LCID field and a meaning represented by the index value of the LCID field.

4. The method according to any one of claims 1 to 3, wherein before sending the MAC subPDU, the method further comprises:

determining that a receive end supports parsing of the MAC subPDU.

5. The method according to claim 4, wherein the determining that the receive end supports parsing of the MAC subPDU comprises:

receiving indication information, wherein the indication information indicates that the receive end supports parsing of the MAC subPDU; or

determining, depending on whether the receive end supports a feature indicated by the MAC subPDU, that the receive end supports parsing of the MAC subPDU.

6. The method according to claim 5, wherein the indication information is carried in dedicated signaling, multicast signaling, or broadcast signaling.

7. The method according to claim 5 or 6, wherein the feature is a reduced capability device feature.

8. The method according to any one of claims 1 to 7, wherein the sending the MAC subPDU comprises:

sending the MAC subPDU during random access procedure.

9. The method according to any one of claims 1 to 8, wherein the meaning represented by the LCID field comprises one or more of the following:

indicating a type of a reduced capability device or an enhanced reduced capability device;

indicating a request of or a corresponding capability report of message 4 HARQ-ACK repetition on a PUCCH in a RACH process; and

indicating combination of at least one of the meanings mentioned above, or indicating combination of at least one of the meanings mentioned above with another meaning.

10. A communication method, comprising:

receiving a media access control MAC subpacket data unit subPDU, wherein the MAC subPDU comprises a radio resource control RRC message, the RRC message comprises an uplink common control channel UL CCCH message, a UL CCCH1 message, or an uplink dedicated control channel UL DCCH message, a header of the MAC subPDU comprises a logical channel identity LCID field, and the MAC subPDU comprises a first field; and

determining, based on a value of the first field and a value of the LCID field, a meaning represented by the LCID field, wherein

when values of the first field are different, meanings represented by the LCID field are determined based on different LCID tables.

11. The method according to claim 10, wherein that the MAC subPDU comprises the first field comprises:

the header of the MAC subPDU comprises the first field; or the RRC message comprises the first field;

wherein if the first field is carried in the header of the MAC subPDU, a size of the header of the MAC subPDU is one byte, a size of the LCID field is six bits, and a size of the first field is one bit or two bits.

12. The method according to claim 10 or 11, wherein the LCID table is a correspondence between an index value of the LCID field and a meaning represented by the index value of the LCID field.

13. The method according to any one of claims 10 to 12, wherein before receiving the MAC subPDU, the method further comprises:

sending indication information, wherein the indication information indicates that parsing of the MAC subPDU is supported.

14. The method according to claim 13, wherein the indication information is carried in

dedicated signaling, multicast signaling, or broadcast signaling.

15. The method according to any one of claims 10 to 14, wherein the receiving the MAC subPDU comprises:

receiving the MAC subPDU during random access procedure.

16. The method according to any one of claims 10 to 15, wherein the meaning represented by the LCID field comprises one or more of the following:

indicating a type of a reduced capability device or an enhanced reduced capability device;

indicating a request of or a corresponding capability report of message 4 HARQ-ACK repetition on a PUCCH in a RACH process; and

indicating combination of at least one of the meanings mentioned above, or indicating combination of at least one of the meanings mentioned above with another meaning.

17. A communication apparatus, comprising:

a processor, configured to execute a computer program stored in a memory, to cause the apparatus to perform the method according to any one of claims 1 to 9.

18. A communication apparatus, comprising:

a processor, configured to execute a computer program stored in a memory, to cause the apparatus to perform the method according to any one of claims 10 to 16.

19. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program; and when the computer program runs on a computer, the computer is caused to perform the method according to any one of claims 1 to 16.