

CLAIMS

1. A control signaling transmission method, comprising:

receiving, by a terminal, a first downlink control signaling sent by a base station;

obtaining, by the terminal, a value of a preset bit in the first downlink control signaling,

5 and determining, according to the value of the preset bit, whether there is a need to feed back acknowledgement message corresponding to a reception of the first downlink control signaling; and

10 sending, by the terminal, the acknowledgement message to the base station if the terminal needs to feed back the acknowledgement message corresponding to the reception of the first downlink control signaling.

2. The method according to claim 1, wherein if the terminal needs to feed back the acknowledgement message corresponding to the reception of the first downlink control signaling, the method further comprises:

15 obtaining, by the terminal, from the first downlink control signaling, information about a resource allocated by the base station to the terminal, wherein the resource is used by the terminal to feed back the acknowledgement message.

20 3. The method according to claim 1, wherein the terminal belongs to a terminal group that receives a same downlink control signaling, and the first downlink control signaling is a common downlink control signaling that is sent to at least two terminals, and the method further comprises:

obtaining version number information from the common downlink control signaling, wherein the version number information is used to distinguish different common downlink control signaling; and

25 feeding back, through a pre-configured physical uplink control channel resource, the version number information to the base station.

4. The method according to claim 1, wherein the terminal belongs to a terminal group that receives a same downlink control signaling, and the first downlink control signaling is a

common downlink control signaling that is sent to at least two terminals, and the method further comprises:

obtaining version number information from the common downlink control signaling, wherein the version number information is used to distinguish different common downlink control signaling;

receiving a second downlink control signaling sent by the base station to the terminal, wherein the second downlink control signaling comprises a version number of the common downlink control signaling that needs to be acknowledged by the terminal, and resource information that is allocated to the terminal for feeding back the acknowledgement message;

and

feeding back the acknowledgement message to the base station.

5. A base station, comprising:

a processing unit, configured to set a preset bit in a first downlink control signaling to indicate whether a terminal needs to feed back acknowledgement message corresponding to a reception of the first downlink control signaling;

a sending unit, configured to send the first downlink control signaling to the terminal; and
a receiving unit, configured to receive the acknowledgement message fed back by the terminal if the base station indicates that the terminal needs to feed back the acknowledgement message corresponding to the reception of the first downlink control signaling.

6. A terminal, comprising:

a receiving unit, configured to receive a first downlink control signaling sent by a base station;

a processing unit, configured to obtain a value of a preset bit in the first downlink control signaling, and determine, according to the value of the preset bit, whether there is a need to feed back acknowledgement message corresponding to a reception of the first downlink control signaling; and

a sending unit, configured to send the acknowledgement message to the base station if the terminal needs to feed back the acknowledgement message corresponding to the reception of the first downlink control signaling.

7. The terminal according to claim 6, wherein if the terminal needs to feed back the acknowledgement message corresponding to the reception of the first downlink control signaling, the processing unit is further configured to obtain, from the first downlink control signaling, information about a resource allocated by the base station to the terminal, wherein
5 the resource is used by the terminal to feed back the acknowledgement message.

8. The terminal according to claim 6, wherein the terminal belongs to a terminal group that receives a same downlink control signaling, and the first downlink control signaling is a common downlink control signaling that is sent to at least two terminals,

the processing unit is further configured to obtain version number information from the
10 common downlink control signaling, wherein the version number information is used to distinguish different common downlink control signaling; and

the sending unit is further configured to feed back, through a pre-configured physical uplink control channel resource, the version number information to the base station.

9. The terminal according to claim 6, wherein the terminal belongs to a terminal group that
15 receives a same downlink control signaling, and the first downlink control signaling is a common downlink control signaling that is sent to at least two terminals,

the processing unit is further configured to obtain version number information from the common downlink control signaling, wherein the version number information is used to distinguish different common downlink control signaling;

20 the receiving unit is further configured to receive a second downlink control signaling sent by the base station to the terminal, wherein the second downlink control signaling comprises a version number of the common downlink control signaling that needs to be acknowledged by the terminal and resource information that is allocated to the terminal for feeding back the acknowledgement message; and

25 the sending unit is further configured to feed back the acknowledgement message to the base station.