

What is claim is:

1. A wireless communication method, comprising:

sending, by a network device, first indication information, wherein the first indication information is used for indicating a format of a first downlink control channel, and the first
5 downlink control channel is used for carrying hybrid automatic repeat request (HARQ) feedback information of a physical uplink shared channel (PUSCH) of at least one terminal device; and

sending, by the network device, the first downlink control channel having the format; wherein the format of the first downlink control channel is used for indicating a quantity of bit
10 units comprised in the first downlink control channel, each bit unit comprises at least one bit, the each bit unit is capable of carrying feedback information of a PUSCH, and different bit units are capable of carrying feedback information of different PUSCHs.

2. The method of claim 1, wherein the bit unit comprises information of Non-Acknowledge (NACK) or Acknowledge (ACK) of a corresponding PUSCH; or

15 the bit unit comprises information of NACK or ACK of a corresponding PUSCH and an HARQ process number of a PUSCH corresponding to the information of NACK or ACK.

3. The method of any one of claims 1-2, wherein the first indication information is carried in a system broadcast message, a radio resource control (RRC) dedicated signaling, an RRC reconfiguration signaling, a media access control (MAC) control element (CE), or a physical
20 downlink control channel (PDCCH).

4. A wireless communication method, comprising:

receiving, by a terminal device, first indication information sent by a network device, wherein the first indication information is used for indicating a format of a first downlink control channel, and the first downlink control channel is used for carrying hybrid automatic
25 repeat request (HARQ) feedback information of a physical uplink shared channel (PUSCH) of at least one terminal device; and

detecting, by the terminal device, the first downlink control channel according to the format, and reading HARQ feedback information of a PUSCH channel of the terminal device in

the first downlink control channel; wherein the format of the first downlink control channel is used for indicating a quantity of bit units comprised in the first downlink control channel, each bit unit comprises at least one bit, the each bit unit is capable of carrying feedback information of a PUSCH, and different bit units are capable of carrying feedback information of different PUSCHs.

5 5. The method of claim 4, wherein the bit unit comprises information of Non-Acknowledge (NACK) or Acknowledge (ACK) of a corresponding PUSCH; or

the bit unit comprises information of NACK or ACK of a corresponding PUSCH and an HARQ process number of a PUSCH corresponding to the information of NACK or ACK.

10 6. The method of any one of claims 4-5, wherein the first indication information is carried in a system broadcast message, a radio resource control (RRC) dedicated signaling, an RRC reconfiguration signaling, a media access control control element, or a physical downlink control channel (PDCCH).

15 7. A network device, comprising a processing unit and a communication unit; wherein the processing unit is used for: determining a format of a first downlink control channel, wherein the first downlink control channel is used for carrying hybrid automatic repeat request (HARQ) feedback information of a physical uplink shared channel (PUSCH) of at least one terminal device; and

20 the communication unit is used for: sending first indication information wherein the first indication information is used for indicating the format of the first downlink control channel; and sending the first downlink control channel having the format; wherein the format of the first downlink control channel is used for indicating a quantity of bit units comprised in the first downlink control channel, each bit unit comprises at least one bit, the each bit unit is capable of carrying feedback information of a PUSCH, and different bit units are capable of carrying feedback information of different PUSCHs.

25 8. The network device of claim 7, wherein the bit unit comprises information of Non-Acknowledge (NACK) or Acknowledge (ACK) of a corresponding PUSCH; or

the bit unit comprises information of NACK or ACK of a corresponding PUSCH and an

HARQ process number of a PUSCH corresponding to the information of NACK or ACK.

9. The network device of any one of claims 7-8, wherein the first indication information is carried in a system broadcast message, a radio resource control (RRC) dedicated signaling, an RRC reconfiguration signaling, a media access control (MAC) control element (CE), or a physical downlink control channel (PDCCH).

10. A terminal device comprising a processing unit and a communication unit; wherein

the communication unit is used for: receiving first indication information sent by a network device, wherein the first indication information is used for indicating a format of a first downlink control channel, and the first downlink control channel is used for carrying hybrid automatic repeat request (HARQ) feedback information of a physical uplink shared channel (PUSCH) of at least one terminal device; and detecting the first downlink control channel according to the format;

the processing unit is used for: reading HARQ feedback information of a PUSCH channel of the terminal device in the first downlink control channel; wherein the format of the first downlink control channel is used for indicating a quantity of bit units comprised in the first downlink control channel, each bit unit comprises at least one bit, the each bit unit is capable of carrying feedback information of a PUSCH, and different bit units are capable of carrying feedback information of different PUSCHs.

11. The terminal device of claim 10, wherein the bit unit comprises information of Non-Acknowledge (NACK) or Acknowledge (ACK) of a corresponding PUSCH; or

the bit unit comprises information of NACK or ACK of a corresponding PUSCH and an HARQ process number of a PUSCH corresponding to the information of NACK or ACK.

12. The terminal device of any one of claims 10-11, wherein the first indication information is carried in a system broadcast message, a radio resource control (RRC) dedicated signaling, an RRC reconfiguration signaling, a media access control control element, or a physical downlink control channel (PDCCH).