

CLAIMS

1. A wireless communication method, comprising:

receiving, by a terminal, a first message, the first message being used to instruct the terminal to stop Uplink (UL) transmission; wherein the first message is a group common Downlink Control Information (DCI);

~~determining, by the terminal, that the UL transmission can be stopped, based on at least one of the following: a type of the UL transmission, a resource indication type of the UL transmission, a Transmission Time Interval, TTI, of the UL transmission, a format of scheduling signaling for the UL transmission, a search space where the scheduling signaling is located, or a receiving time at which the first message and the scheduling signaling for the UL transmission are received respectively; and~~

determining a sequence of a priority of the UL transmission in multiple UL transmissions;

stopping, by the terminal, the UL transmission responsive to the first message when the priority of the UL transmission is lowest in multiple UL transmissions; and

not stopping, by the terminal, the UL transmission responsive to the first message when the priority of the UL transmission is not lowest in the multiple UL transmissions.

2. The method of claim 1, wherein the first message is further used to indicate a start point of stopping the UL transmission.

3. The method of claim 1 or 2, further comprising:

determining the start point of stopping the UL transmission according to a timing relationship configured by high-layer signaling; wherein the timing relationship indicates a timing relationship between the first message and the start point.

4. The method of claim ~~31~~, wherein the ~~timing relationship indicates a timing relationship between the first message and the start point~~first message is further used to indicate a frequency-domain position where the UL transmission is stopped.

5. The method of any one of claims 1-4, further comprising:

determining an end point of stopping the UL transmission based on a time-domain resource for the UL transmission.

6. The method of claim 5, wherein the end point of stopping the UL transmission comprises:

an ending boundary of a first slot for the UL transmission; or,

an ending boundary of a first slot after a receiving time for the first message in slots for the UL transmission; or,

an ending point of the time-domain resource for the UL transmission; or,

an ending boundary of a last slot for the UL transmission.

7. The method of any one of claims 1-6, wherein the UL transmission has a low priority.

8. The method of any one of claims 1-7, wherein the type of the UL transmission comprises UL transmission for transmitting data or UL transmission for transmitting control signaling, and

wherein the UL transmission for transmitting control signaling has a high priority, and the UL transmission for transmitting data has a low priority.

9. The method of any one of claims 1-7, wherein the type of the UL transmission further comprises UL transmission of a URLLC service or UL transmission of a eMBB service, and

wherein the UL transmission of the URLLC service has a high priority, and the UL transmission of the eMBB service has a low priority.

10. The method of any one of claims 1-6, wherein determining, by the terminal, that the UL transmission can be stopped, based on the receiving time at which the first message and the scheduling signaling for the UL transmission are received respectively comprises:

if the first message is received after the scheduling signaling for the UL transmission, determining, by the terminal, that the UL transmission can be stopped; or

if the first message is received no later than the scheduling signaling for the UL transmission, determining, by the terminal, that the UL transmission cannot be stopped.

11. A wireless communication method, comprising:

determining, by a network device, a sequence of a priority of Uplink (UL) transmission in multiple UL transmissions;

sending, by ~~a~~the network device, a first message to a terminal, the first message being

used to instruct the terminal to stop or not to stop the Uplink (UL) transmission; and

stopping, by the network device, receiving the UL transmission when the priority of the UL transmission is lowest in multiple UL transmissions.

12. A terminal, comprising a communication unit and a processing unit, wherein

the communication unit is configured to receive a first message, the first message being used to instruct the terminal to stop Uplink (UL) transmission, wherein the first message is a group common Downlink Control Information (DCI); and

the processing unit is configured to: determine a sequence of a priority of the UL transmission in multiple UL transmissions; determine that the UL transmission can be stopped, based on at least one of the following: a type of the UL transmission, a resource indication type of the UL transmission, a Transmission Time Interval, TTI, of the UL transmission, a format of scheduling signaling for the UL transmission, a search space where the scheduling signaling is located, or receiving time at which the first message and the scheduling signaling for the UL transmission are received respectively, and stop the UL transmission responsive to the first message when the priority of the UL transmission is lowest in multiple UL transmissions, and not stop the UL transmission responsive to the first message when the priority of the UL transmission is not lowest in the multiple UL transmissions.

13. The terminal of claim 12, wherein the first message is further used to indicate a start point of stopping the UL transmission.

14. The terminal of claim 12 or 13, wherein the processing unit is further configured to:

determine the start point of stopping the UL transmission according to a timing relationship configured by high-layer signaling; wherein the timing relationship indicates a timing relationship between the first message and the start point.

15. The terminal of claim ~~14~~¹², wherein the ~~timing relationship indicates a timing relationship between the first message and the start point~~first message is further used to indicate a frequency-domain position where the UL transmission is stopped.

16. The terminal of any one of claims 12-15, wherein the processing unit is further configured to:

determine an end point of stopping the UL transmission based on a time-domain resource for the UL transmission.

17. The terminal of claim 16, wherein the end point of stopping the UL transmission comprises:

an ending boundary of a first slot for the UL transmission; or,

an ending boundary of a first slot after a receiving time of the first message in slots for the UL transmission; or,

an ending point of the time-domain resource for the UL transmission; or,

an ending boundary of a last slot for the UL transmission.

18. The terminal of any one of claims 12-17, wherein the UL transmission has a low priority.

19. The terminal of any one of claims 12-18, wherein the type of the UL transmission comprises UL transmission for transmitting data or UL transmission for transmitting control signaling, and

wherein the UL transmission for transmitting control signaling has a high priority, and the UL transmission for transmitting data has a low priority.

20. The terminal of any one of claims 12-18, wherein the type of the UL transmission further comprises UL transmission of a URLLC service or UL transmission of a eMBB service, and

wherein the UL transmission of the URLLC service has a high priority, and the UL transmission of the eMBB service has a low priority.

21. The terminal of any one of claims 12-17, wherein the processor unit is further configured to:

if the first message is received after the scheduling signaling for the UL transmission, determine that the UL transmission can be stopped; or

if the first message is received no later than the scheduling signaling for the UL transmission, determine that the UL transmission cannot be stopped.

22. A network device, comprising a communication unit and a processing unit, wherein

the communication unit is configured to send a first message to a terminal, the first message being used to instruct the terminal to stop or not to stop Uplink (UL) transmission,

wherein the first message is a group common Downlink Control Information (DCI); and

the processing unit is configured to determine a sequence of a priority of the UL transmission in multiple UL transmissions, and stop receiving of the UL transmission when the priority of the UL transmission is lowest in multiple UL transmissions.