CLAIMS

What is claimed is:

1. An uplink transmission method, performed by a terminal and comprising:

in a case that an uplink control channel conflicts with an uplink data channel, performing multiplexing transmission for uplink control information and uplink transmission, wherein

a transmission resource of the uplink transmission and a transmission resource of the uplink control channel overlap, and the uplink transmission meets a preset condition;

wherein the preset condition comprises: the uplink data channel is a dynamic grant, and a carrier to which the uplink transmission belongs is a carrier on which an uplink skipping function is prohibited from being enabled or is not configured, wherein

the carrier on which the uplink skipping function is prohibited from being enabled or is not configured comprises at least one of the following:

a primary carrier or a carrier with the smallest carrier index in a carrier group;

or,

the uplink data channel is a configured grant;

wherein the uplink transmission comprises: uplink transmission generated for transmitting a MAC PDU generated by a MAC layer of the terminal in a case that no data transmission is performed on the carrier to which the uplink transmission belongs;

or,

uplink transmission generated on a carrier with the smallest carrier index among a plurality of carriers in a case that the plurality of carriers are configured with configured grants; or

uplink transmission generated on a target configured grant of one carrier in a case that the one carrier is configured with a plurality of configured grants;

wherein the target configured grant comprises a configured grant with the earliest transmission start time of the one carrier.

2. The method according to claim 1, wherein the uplink transmission is uplink transmission scheduled by a network-side device.

3. The method according to claim 2, wherein in a case that the uplink data channel is a dynamic grant, the uplink data channel belongs to the carrier on which the uplink skipping function has been enabled by the terminal;

wherein a carrier, of the terminal, on which the uplink skipping function is prohibited from being enabled or is not configured comprises at least one of the following:

a primary carrier or a carrier with the smallest carrier index in a carrier group.

4. The method according to claim 2 or 3, wherein when the carrier to which the uplink transmission belongs is the same as the carrier to which the uplink data channel belongs, the carrier to which the uplink transmission belongs is a carrier on which the uplink skipping function is enabled; or

when the carrier to which the uplink transmission belongs is different from the carrier to which the uplink data channel belongs, the carrier to which the uplink transmission belongs is a carrier on which the uplink skipping function is not enabled or configured, or the carrier to which the uplink transmission belongs is a carrier on which the uplink skipping function is enabled.

5. The method according to claim 2 or 3, wherein the uplink transmission comprises:

aperiodic channel state information A-CSI.

6. The method according to claim 1, wherein the preset condition comprises:

the uplink transmission is a configured grant.

7. An uplink receiving method, performed by a network-side device and comprising:

in a case that an uplink control channel conflicts with an uplink data channel, receiving uplink control information and uplink transmission, wherein multiplexing transmission is performed for the uplink control information and the uplink transmission, wherein

a transmission resource of the uplink transmission and a transmission resource of the uplink control channel overlap, and the uplink transmission meets a preset condition； wherein the preset condition comprises: the uplink data channel is a dynamic grant, and a carrier to which the uplink transmission belongs is a carrier, of a terminal, on which an uplink skipping function is prohibited from being enabled or is not configured, wherein

the carrier on which the uplink skipping function is prohibited from being enabled or is not configured comprises at least one of the following:

a primary carrier or a carrier with the smallest carrier index in a carrier group;

or,

the uplink data channel is a configured grant;

wherein the uplink transmission comprises: uplink transmission generated for transmitting a MAC PDU generated by a MAC layer of the terminal in a case that no data transmission is performed on the carrier to which the uplink transmission belongs;

or,

uplink transmission generated on a carrier with the smallest carrier index among a plurality of carriers in a case that the plurality of carriers are configured with configured grants; or

uplink transmission generated on a target configured grant of one carrier in a case that the one carrier is configured with a plurality of configured grants;

wherein the target configured grant comprises a configured grant with the earliest transmission start time of the one carrier.

8. The method according to claim 7, wherein the uplink transmission is uplink transmission scheduled by the network-side device.

9. The method according to claim 8, wherein the carrier to which the uplink transmission belongs is the same as the carrier to which the uplink data channel belongs.

10. The method according to claim 8, wherein the carrier to which the uplink transmission belongs is different from the carrier to which the uplink data channel belongs.

11. The method according to claim 8, wherein the uplink transmission comprises:

aperiodic channel state information A-CSI.

12. A terminal, comprising a memory, a processor, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the steps of the uplink transmission method according to any one of claims 1 to 6 are implemented.

13. A network-side device, comprising a memory, a processor, and a program or instructions stored in the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the steps of the uplink receiving method according to any one of claims 7 to 11 are implemented.

14. A readable storage medium, wherein the readable storage medium stores a program or instructions, and when the program or instructions are executed by a processor, the steps of the uplink transmission method according to any one of claims 1 to 6 are implemented.

15. A readable storage medium, wherein the readable storage medium stores a program or instructions, and when the program or instructions are executed by a processor, the steps of the uplink receiving method according to any one of claims 7 to 11 are implemented.