CLAIMS

What is claimed is:

1. A transmission method, applied to a terminal and comprising:

determining, based on a first priority relationship, third uplink information from first uplink information and second uplink information, wherein the first uplink information is first beam failure recovery request BFRQ information; and

transmitting the third uplink information by using a first uplink resource;

wherein the BFRQ information is carried in a medium access control control element MAC CE; wherein the third uplink information is uplink information that can be carried by the first uplink resource; the second uplink information comprises at least one of the following:

a C-RNTI MAC CE or data from UL-CCCH;

a MAC CE for transmitting a configured grant confirmation;

a MAC CE for transmitting a first buffer status report BSR, wherein the first BSR does not comprise a BSR for padding;

a MAC CE for transmitting a single entry power headroom report or a MAC CE for transmitting a multiple entry power headroom report;

data from any logical channel except the UL-CCCH;

a MAC CE for transmitting a recommended bit rate query;

a MAC CE for transmitting a second BSR, wherein the second BSR comprises a BSR for padding; and

a MAC CE for transmitting second BFRQ information, wherein the MAC CE that transmits the second BFRQ information is the same as or different from the MAC CE that transmits the first BFRQ information.

2. The method according to claim 1, wherein the third uplink information comprises at least one of the following:

all or part of the first uplink information; and

all or part of the second uplink information.

3. The method according to claim 1, wherein the first BFRQ information is BFRQ information for a cell, BFRQ information for a bandwidth part BWP, or BFRQ information for a transmission reception point TRP.

4. The method according to claim 1, wherein the determining, based on a first priority relationship, third uplink information from first uplink information and second uplink information comprises:

in a case that the first uplink information and the second uplink information cannot be transmitted at the same time on the first uplink resource, determining, based on the first priority relationship, the third uplink information from the first uplink information and the second uplink information.

5. The method according to claim 1, wherein the first priority relationship comprises any one of the following:

a priority of the BFRQ information is higher than a priority of fourth uplink information, wherein the fourth uplink information is uplink information except the BFRQ information;

a priority of the BFRQ information is the same as a priority of target uplink information, wherein the target uplink information comprises a C-RNTI MAC CE or data from UL-CCCH; and

a priority of the BFRQ information is between a first priority and a second priority that are adjacent, wherein the first priority and the second priority are priorities corresponding to uplink information in the fourth uplink information.

6. The method according to claim 1, wherein the first priority relationship comprises at least one of the following:

a priority of BFRQ information for a primary cell or a primary secondary cell is greater than that of BFRQ information for a secondary cell; and

a priority relationship among different BFRQ information determined based on cell information, wherein the different BFRQ information is BFRQ information for different secondary cells.

7. The method according to claim 1, wherein the first priority relationship comprises a priority relationship among different BFRQ information determined

based on bandwidth part BWP information or transmission reception point TRP information.

8. The method according to claim 1, wherein the second uplink information is uplink information for a cell, uplink information for a bandwidth part BWP, or uplink information for a transmission reception point TRP.

9. The method according to claim 8, wherein the cell is a primary cell, a primary secondary cell, or a secondary cell.

10. A transmission method, applied to a network device and comprising:

receiving third uplink information transmitted by a terminal using a first uplink resource, wherein the third uplink information is uplink information determined by the terminal based on a first priority relationship from first uplink information and second uplink information, and the first uplink information is first beam failure recovery request BFRQ information;

wherein the BFRQ information is carried in a medium access control control element MAC CE; wherein the third uplink information is uplink information that can be carried by the first uplink resource; the second uplink information comprises at least one of the following:

a C-RNTI MAC CE or data from UL-CCCH;

a MAC CE for transmitting a configured grant confirmation;

a MAC CE for transmitting a first buffer status report BSR, wherein the first BSR does not comprise a BSR for padding;

a MAC CE for transmitting a single entry power headroom report or a MAC CE for transmitting a multiple entry power headroom report;

data from any logical channel except the UL-CCCH;

a MAC CE for transmitting a recommended bit rate query;

a MAC CE for transmitting a second BSR, wherein the second BSR comprises a BSR for padding; and

a MAC CE for transmitting second BFRQ information, wherein the MAC CE that transmits the second BFRQ information is the same as or different from the MAC CE that transmits the first BFRQ information.

11. The method according to claim 10, wherein the third uplink information comprises at least one of the following:

all or part of the first uplink information; and

all or part of the second uplink information.

12. The method according to claim 10, wherein the first BFRQ information is BFRQ information for a cell, BFRQ information for a bandwidth part BWP, or BFRQ information for a transmission reception point TRP.

13 The method according to claim 10, wherein the first priority relationship comprises any one of the following:

a priority of the BFRQ information is higher than a priority of fourth uplink information, wherein the fourth uplink information is uplink information except the BFRQ information;

a priority of the BFRQ information is the same as a priority of target uplink information, wherein the target uplink information comprises a C-RNTI MAC CE or data from UL-CCCH; and

a priority of the BFRQ information is between a first priority and a second priority that are adjacent, wherein the first priority and the second priority are priorities corresponding to uplink information in the fourth uplink information.

14. The method according to claim 10, wherein the first priority relationship comprises at least one of the following:

a priority of BFRQ information for a primary cell or a primary secondary cell is greater than that of BFRQ information for a secondary cell; and

a priority relationship among different BFRQ information determined based on cell information, wherein the different BFRQ information is BFRQ information for different secondary cells.

15. The method according to claim 10, wherein the first priority relationship comprises a priority relationship among different BFRQ information determined based on bandwidth part BWP information or transmission reception point TRP information.

16. The method according to claim 10, wherein the second uplink information is uplink information for a cell, uplink information for a bandwidth part BWP, or uplink information for a transmission reception point TRP.

17. The method according to claim 16, wherein the cell is a primary cell, a primary secondary cell, or a secondary cell.

18. A terminal, comprising:

a determining module, configured to determine, based on a first priority relationship, third uplink information from first uplink information and second uplink information, wherein the first uplink information is first beam failure recovery request BFRQ information; and

a transmitting module, configured to transmit the third uplink information by using a first uplink resource;

wherein the BFRQ information is carried in a medium access control control element MAC CE; wherein the third uplink information is uplink information that can be carried by the first uplink resource; the second uplink information comprises at least one of the following:

a C-RNTI MAC CE or data from UL-CCCH;

a MAC CE for transmitting a configured grant confirmation;

a MAC CE for transmitting a first buffer status report BSR, wherein the first BSR does not comprise a BSR for padding;

a MAC CE for transmitting a single entry power headroom report or a MAC CE for transmitting a multiple entry power headroom report;

data from any logical channel except the UL-CCCH;

a MAC CE for transmitting a recommended bit rate query;

a MAC CE for transmitting a second BSR, wherein the second BSR comprises a BSR for padding; and

a MAC CE for transmitting second BFRQ information, wherein the MAC CE that transmits the second BFRQ information is the same as or different from the MAC CE that transmits the first BFRQ information.