

## CLAIMS

What is claimed is:

1. A beam failure handling method applied to a terminal, comprising:  
triggering transmission of at least one of beam failure recovery request BFRQ information and a scheduling request SR for BFRQ if a beam failure occurs in a secondary cell SCell, wherein the terminal has at least one of the following features related to the SCell:  
if a first condition is met, triggering transmission of subsequent SRs for BFRQ is forbidden;  
wherein the first condition comprises at least one of the following:  
the BFRQ information is triggered, and the BFRQ information is being transmitted;  
if a second condition is met, a beam failure instance BFI counter skips or stops counting;  
and  
if a third condition is met, a BFI counter is reset, wherein  
the third condition comprises at least one of the following:  
beam failure recovery succeeds, triggering transmission of at least one of subsequent BFRQ information and subsequent SRs for BFRQ is forbidden, and the forbidding of the triggering transmission of at least one of subsequent BFRQ information and subsequent SRs for BFRQ is lifted.
2. The method according to claim 1, wherein the first condition further comprises at least one of the following:  
transmitting the BFRQ information succeeds, and a first timer is running.
3. The method according to claim 2, wherein a starting condition of the first timer is at least one of the following: the BFRQ information is triggered, the BFRQ information is being transmitted, and transmitting the BFRQ information succeeds.
4. The method according to claim 2, wherein a stopping condition of the first timer is at least one of the following: the SCell is released, the SCell is deactivated, a bandwidth part BWP is switched, and beam failure recovery succeeds.
5. The method according to claim 1, wherein in a case that the first condition is met and triggering transmission of subsequent SRs for BFRQ is forbidden,  
if a fourth condition is met, the forbidding of the triggering transmission of subsequent SRs for BFRQ is lifted.

6. The method according to claim 5, wherein the fourth condition comprises at least one of the following:

the SCell is released, the SCell is deactivated, a BWP is switched, and beam failure recovery succeeds.

7. The method according to claim 1, wherein the second condition comprises at least one of the following:

the SCell is released, the SCell is deactivated, a bandwidth part BWP is switched, and a beam failure occurs in the SCell.

8. The method according to claim 7, that if a third condition is met, a BFI counter is reset means: in a case that the second condition is not met, if the third condition is met, the BFI counter is reset; and/or

in a case that the second condition is met and the BFI counter skips or stops counting, if the third condition is met, that the BFI counter skips or stops counting is lifted.

9. The method according to claim 1, wherein that the beam failure recovery succeeds comprises at least one of the following:

a physical downlink control channel PDCCH beam is switched;  
a beam failure detection reference signal BFD RS beam is switched;  
a physical downlink shared channel PDSCH beam is switched;  
first downlink control information DCI is received from a network side;  
first radio resource control RRC signaling is received from a network side; and  
a first media access control control element MAC CE command is received from a network side.

10. The method according to claim 9, wherein the first DCI has at least one of the following features:

the first DCI is transmitted on a dedicated control resource for beam failure recovery;  
a format of the first DCI is a DCI format with cyclic redundancy check CRC scrambled by a radio network temporary identifier RNTI for BFR;  
the first DCI is used for indicating beam information of a downlink channel or reference signal of the SCell in which the beam failure occurs;  
the first DCI is used for indicating performing beam measurement in the SCell in which the beam failure occurs; and  
the first DCI is used for transmitting acknowledgment information for the BFRQ information;

and/or

the first RRC signaling has at least one of the following features:

the first RRC signaling comprises release signaling for the SCell in which the beam failure occurs; and

the first RRC signaling is used for configuring beam information of a downlink channel or reference signal of the SCell in which the beam failure occurs;

and/or

the first MAC CE command has at least one of the following features:

the first MAC CE command is used for activating beam information of a downlink channel or reference signal of the SCell in which the beam failure occurs;

the first MAC CE command comprises deactivation signaling for the SCell in which the beam failure occurs; and

the first MAC CE command is used for transmitting acknowledgment information for the BFRQ information.

11. The method according to claim 1, wherein the SR is a dedicated SR, and the SR is transmitted on a network-configured dedicated physical uplink control channel PUCCH resource for BFR.

12. The method according to claim 1, wherein the BFRQ information comprises at least one of the following:

index information and new beam information of the SCell in which the beam failure occurs.

13. A terminal, comprising:

a triggering module, configured to trigger transmission of at least one of BFRQ information and a scheduling request SR for BFRQ if a beam failure occurs in an SCell, wherein

the terminal has at least one of the following features related to the SCell:

if a first condition is met, triggering transmission of subsequent SRs for BFRQ is forbidden;

wherein the first condition comprises at least one of the following:

the BFRQ information is triggered, and the BFRQ information is being transmitted;

if a second condition is met, a BFI counter skips or stops counting; and

if a third condition is met, a BFI counter is reset, wherein

the third condition comprises at least one of the following:

beam failure recovery succeeds, triggering transmission of at least one of subsequent BFRQ information and subsequent SRs for BFRQ is forbidden, and the forbidding of the triggering

transmission of at least one of subsequent BFRQ information and subsequent SRs for BFRQ is lifted.

14. The terminal according to claim 13, wherein the first condition further comprises at least one of the following:

transmitting the BFRQ information succeeds, and a first timer is running.

15. The terminal according to claim 13, wherein in a case that the first condition is met and triggering transmission of subsequent SRs for BFRQ is forbidden,

if a fourth condition is met, the forbidding of the triggering transmission of subsequent SRs for BFRQ is lifted.

16. The terminal according to claim 13, wherein the second condition comprises at least one of the following:

the SCell is released, the SCell is deactivated, a bandwidth part BWP is switched, and a beam failure occurs in the SCell.

17. A terminal, comprising a memory, a processor, and a program stored in the memory and capable of running on the processor, wherein when the program is executed by the processor, the steps of the beam failure handling method according to any one of claims 1 to 12 are implemented.

18. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the steps of the beam failure handling method according to any one of claims 1 to 12 are implemented.