WHAT IS CLAIMED IS:

1. A beam failure recovery method, performed by a terminal, comprising:

performing a beam failure detection on a plurality of Transmit/Receive Points (TRPs) of the terminal, in response to the terminal being configured with the plurality of TRPs;

determining that a trigger condition for triggering a random access-based beam failure recovery is satisfied; and

triggering the random access-based beam failure recovery in response to detecting that there is a first TRP on which a beam failure occurs among the plurality of TRPs;

wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to detecting that there is a second TRP, among the plurality of TRPs, on which the beam failure occurs before a fifth time, wherein the fifth time is a time when second downlink control information is received, and the second downlink control information is used for determining that a network device has received medium access control control element (MAC CE) information.

2. The method of claim 1, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to detecting that there is a second TRP, among the plurality of TRPs, on which the beam failure occurs after a first time and before a second time;

wherein the first time is a time when detecting that the beam failure occurs on the first TRP, and the second time is a time when a scheduling request (SR) is sent on a physical uplink control channel (PUCCH) resource.

3. The method of claim 1, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to detecting that there is a second TRP, among the plurality of TRPs, on which the beam failure occurs before a third time;

wherein the third time is a time when first downlink control information for scheduling a physical uplink shared channel (PUSCH) is received.

4. The method of claim 3, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to no downlink control information having been received within a first duration after a second time, wherein the second time is a time when a scheduling request (SR) is sent on a physical uplink control channel (PUCCH) resource.

5. The method of claim 1, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to detecting that there is a second TRP, among the plurality of TRPs, on which the beam failure occurs before a fourth time;

wherein the fourth time is a time when medium access control control element (MAC CE) information associated with the first TRP on which the beam failure occurs is sent on a first physical uplink shared channel (PUSCH).

6. The method of claim 5, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to a beam corresponding to the first PUSCH being a beam on which a beam failure occurs;

wherein the first PUSCH is scheduled by first downlink control information or the first PUSCH is a configure grant Type 1 or Type 2 PUSCH.

7. The method of claim 1, wherein the second downlink control information is used for scheduling a second physical uplink shared channel (PUSCH); or

a hybrid automatic repeat request identity of the second PUSCH scheduled by the second downlink control information is identical to a hybrid automatic repeat request identity of a first PUSCH, wherein the first PUSCH is used for sending the MAC CE information associated with the first TRP on which the beam failure occurs; or

a new data indicator of the second PUSCH scheduled by the second downlink control information toggles.

8. The method of claim 1 or 7, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam

failure recovery is satisfied in response to no downlink control information having been received within a second duration after a fourth time, wherein the fourth time is a time when the MAC CE information associated with the TRP on which the first beam failure occurs is sent on a first physical uplink shared channel (PUSCH).

9. The method of claim 1, wherein determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied comprises:

determining that the trigger condition for triggering the random access-based beam failure recovery is satisfied in response to detecting that there is a second TRP, among the plurality of TRPs, on which the beam failure occurs before a sixth time;

wherein the sixth time is a time when a beam of the first TRP is updated.

10. The method of claim 9, further comprising:

triggering a TRP specific beam failure recovery in response to detecting that there is another second TRP, among the plurality of TRPs, on which the beam failure occurs after the sixth time.

11. The method of claim 10, wherein triggering the TRP specific beam failure recovery comprises:

triggering a beam failure recovery based on at least one of a physical uplink control channel (PUCCH) – scheduling request (SR) or a physical uplink shared channel (PUSCH) medium access control control element (MAC CE).

12. The method of any one of claims 1 to 11, further comprising:

triggering a TRP specific beam failure recovery, or not triggering the TRP specific beam failure recovery.

13. The method of any one of claims 1 to 12, wherein the terminal being configured with the plurality of TRPs comprises at least one of:

the terminal being configured with a plurality of reference signal resource sets for beam failure detection, or the terminal being configured with a plurality of control resource pool index values.

14. A beam failure recovery device, comprising:

a processor; and

a memory storing instructions executable by the processor;

wherein the processor is configured to perform the beam failure recovery method of any one of claims 1 to 13.

15. A storage medium having instructions stored thereon, wherein when the instructions are executed by a processor of a terminal, the terminal is caused to perform the beam failure recovery method of any one of claims 1 to 13.