WHAT IS CLAIMED IS:

1. A method for random access, comprising:

determining, by a terminal device, a target downlink BandWidth Part (BWP) for random access according to a first uplink BWP and a first mapping relationship, wherein the first uplink BWP is a currently active uplink BWP, and the first mapping relationship is used to determine a downlink BWP to which the first uplink BWP is mapped; and

performing, by the terminal device, a contention-based random access on the first uplink BWP and the target downlink BWP.

2. The method according to claim 1, wherein determining, by the terminal device, the target downlink BWP according to the first uplink BWP and the first mapping relationship comprises:

when it is determined that the first uplink BWP is mapped to a first downlink BWP according to the first mapping relationship, and the first downlink BWP is not a currently active downlink BWP for the terminal device, determining, by the terminal device, the first downlink BWP as the target downlink BWP.

3. The method according to claim 1, wherein determining, by the terminal device, the target downlink BWP according to the first uplink BWP and the first mapping relationship comprises:

when it is determined that the first uplink BWP is mapped to a first downlink BWP according to the first mapping relationship, and the first downlink BWP is not a currently active downlink BWP for the terminal device, determining, by the terminal device, an initial downlink BWP as the target downlink BWP.

4. The method according to claim 1, wherein the first mapping relationship is a mapping relationship between BWP indices of uplink BWPs and BWP indices of downlink BWPs.

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

when a currently active downlink BWP for the terminal device is different from the target downlink BWP, switching, by the terminal device, the currently active downlink BWP to the target downlink BWP.

6. The method according to any one of claims 1 to 4, further comprising:

when a currently active downlink BWP for the terminal device and the first uplink BWP have the first mapping relationship with each other, the terminal not performing downlink BWP switching.

7. The method according to any one of claims 1 to 4, further comprising:

when the first uplink BWP is an initial uplink BWP and a currently active downlink BWP for the terminal device is not an initial downlink BWP, switching, by the terminal device, the currently active downlink BWP to the initial downlink BWP.

8. A device for random access, comprising:

a determination module configured to determine a target downlink BandWidth Part (BWP) for random access according to a first uplink BWP and a first mapping relationship, wherein the first uplink BWP is a currently active uplink BWP, and the first mapping relationship is used to determine a downlink BWP to which the first uplink BWP is mapped; and

a communication module configured to perform a contention-based random access on the first uplink BWP and the target downlink BWP.

9. The device according to claim 8, wherein the determination module is further configured to:

when it is determined that the first uplink BWP is mapped to a first downlink BWP according to the first mapping relationship, and the first downlink BWP is not a currently active downlink BWP for the terminal device, determine the first downlink BWP as the target downlink BWP.

10. The device according to claim 8, wherein the determination module is further configured to:

when it is determined that the first uplink BWP is mapped to a first downlink BWP according to the first mapping relationship, and the first downlink BWP is not a currently active downlink BWP for the terminal device, determine an initial downlink BWP as the target downlink BWP.

11. The device according to claim 8, wherein the first mapping relationship is a mapping relationship between BWP indices of uplink BWPs and BWP indices of downlink BWPs.

12. The device according to any one of claims 8 to 11, further comprising:

a switching module configured to, when a currently active downlink BWP for the terminal device is different from the target downlink BWP, switch the currently active downlink BWP to the target downlink BWP.

13. The device according to any one of claims 8 to 11, further comprising:

a switching module configured to, when a currently active downlink BWP for the terminal device and the first uplink BWP have the first mapping relationship with each other, not perform downlink BWP switching.

14. The device according to any one of claims 8 to 11, further comprising:

a switching module configured to, when the first uplink BWP is an initial uplink BWP and a currently active downlink BWP for the terminal device is not an initial downlink BWP, switch the currently active downlink BWP to the initial downlink BWP.

15. A computer-readable storage medium having stored therein instructions that, when executed by a processor of a terminal device, causes the terminal device to perform the method according to any one of claims 1 to 7.