WHAT IS CLAIMED IS:

1. A bandwidth part (BWP) switching method, performed by a terminal and comprising:

determining a target BWP to be switched to for the terminal, wherein the terminal is configured with an initial BWP and a separate small data transmission (SDT) BWP, the terminal is triggered to enter from a connected state to an inactive state, and the target BWP comprises the initial BWP or the separate SDT BWP; and

switching from an active BWP to the target BWP;

wherein determining the target BWP comprises:

determining that a condition for switching to the separate SDT BWP is met, and switching to the separate SDT BWP; or

determining that a condition for switching to the separate SDT BWP is not met, and switching to the initial BWP;

wherein the condition for switching to the separate SDT BWP comprises: the separate SDT BWP being configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel.

2. The BWP switching method according to claim 1, wherein determining the target BWP further comprises at least one of:

determining the target BWP for the terminal based on a communication protocol;

determining the target BWP for the terminal based on indication information, wherein the indication information indicates the target BWP to be switched to.

3. The BWP switching method according to claim 2, wherein the target BWP to be switched to for the terminal is the initial BWP, and the BWP switching method further comprises:

determining that a small data packet to be transmitted exists, and determining that a time advance (TA) corresponding to the SDT is valid; and

switching from the initial BWP to the separate SDT BWP and performing a configured grant (CG) SDT.

4. The BWP switching method according to claim 3, wherein the separate SDT BWP is not configured with a synchronization signal and PBCH block (SSB), and determining that the TA corresponding to the SDT is valid comprises:

determining that the TA corresponding to the SDT is valid based on a first parameter reference value and a first parameter measurement value, wherein the first parameter reference value comprises a parameter measurement value measured on the initial BWP or an active BWP before entering the inactive state, and the first parameter measurement value is obtained by measuring a beam, the same as a beam measured to obtain the first parameter reference value, on the initial

BWP after entering the inactive state.

5. The switching method according to claim 3, wherein the target BWP to be switched to for the terminal is determined to be the initial BWP based on the communication protocol or the indication information, the separate SDT BWP is configured with an SSB, and determining that the TA corresponding to the SDT is valid comprise:

determining that the TA corresponding to the SDT is valid based on a second parameter reference value and a second parameter measurement value, wherein the second parameter reference value comprises a parameter measurement value measured on the initial BWP, the separate SDT BWP or an active BWP before entering the inactive state, and the second parameter measurement value is obtained by measuring a beam, the same as a beam measured to obtain the second parameter reference value, on the separate SDT BWP or the initial BWP after entering the inactive state.

6. The BWP switching method according to claim 3, further comprising:

determining that the SDT is completed, and switching from the separate SDT BWP to the initial BWP.

7. The BWP switching method according to claim 2, wherein the target BWP to be switched to for the terminal is the separate SDT BWP, and the method further comprises:

determining that a small data packet to be transmitted exists, and determining that a TA corresponding to the SDT is valid; and

performing a CG SDT on the separate SDT BWP.

8. The BWP switching method according to claim 7, wherein the separate SDT BWP comprises the initial BWP, or the separate SDT BWP is configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel; and

determining that the TA corresponding to the SDT is valid comprises:

determining that the TA corresponding to the SDT is valid based on a third parameter reference value and a third parameter measurement value, wherein the third parameter reference value comprises a parameter measurement value measured on the separate SDT BWP or an active BWP before entering the inactive state, and the third parameter measurement value is obtained by measuring a beam, the same as a beam measured to obtain the third parameter reference value, on the separate SDT BWP after entering the inactive state.

9. The BWP switching method according to claim 7, wherein the target BWP to be switched to for the terminal is determined to be the separate SDT BWP based on the communication protocol or the indication information, and no SSB is configured in the separate SDT BWP; and

determining that the TA corresponding to the SDT is valid comprises:

determining that the TA corresponding to the SDT is valid based on a fourth parameter reference value and a fourth parameter measurement value, wherein the fourth parameter reference value comprises a parameter measurement value measured on the initial BWP or an active BWP before entering the inactive state, and the fourth parameter measurement value is obtained by measuring a beam, the same as a beam measured to obtain the fourth parameter reference value, on the initial BWP after entering the inactive state.

10. The BWP switching method according to any one of claims 3 to 9, further comprising:

determining that the small data packet to be transmitted exists, and determining that the TA corresponding to the SDT is invalid; and

performing a random access-based SDT on the initial BWP or the separate SDT BWP.

11. A BWP switching method, performed by a network device and comprising:

sending indication information, wherein the indication information indicates a target BWP to be switched to for a terminal that is triggered to enter an inactive state from a connected state, and the target BWP comprises an initial BWP or a separate SDT BWP, wherein the target BWP is determined by:

determining that a condition for switching to the separate SDT BWP is met, and switching to the separate SDT BWP; or

determining that a condition for switching to the separate SDT BWP is not met, and switching to the initial BWP;

wherein the condition for switching to the separate SDT BWP comprises: the separate SDT BWP being configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel.

12. The BWP switching method according to claim 11, wherein the target BWP comprises the initial BWP, the separate SDT BWP is not configured with an SSB, and the method further comprises:

configuring the initial BWP with measurement information of a beam, the same as a beam used for measurement of a first parameter reference value, wherein the first parameter reference value is a parameter measurement value measured on the initial BWP or an active BWP.

13. The BWP switching method according to claim 11, wherein the target BWP comprises the initial BWP, the separate SDT BWP is configured with an SSB, and the method further comprises:

configuring the separate SDT BWP with measurement information of a beam, the same as a beam used for measurement of a second parameter reference value, wherein the second parameter reference value comprises a parameter measurement value measured on the initial BWP, the separate SDT BWP or an active BWP before entering the inactive state.

14. The BWP switching method according to claim 11, wherein the target BWP comprises the separate SDT BWP, the separate SDT BWP comprises the initial BWP or the separate SDT BWP is configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel, and the method further comprises:

configuring the separate SDT BWP with measurement information of a beam, the same as a beam used for measurement of a third parameter reference value, wherein the third parameter reference value comprises a parameter measurement value measured on the separate SDT BWP or an active BWP before entering the inactive state.

15. The BWP switching method according to claim 11, wherein the target BWP comprises the separate SDT BWP, no SSB is configured in the separate SDT BWP, and the method further comprises:

configuring the initial BWP with measurement information of a beam, the same as a beam used for measurement of a fourth parameter reference value, wherein the fourth parameter reference value comprises a parameter measurement value on measured the initial BWP or an active BWP before entering the inactive state.

16. A terminal, comprising:

a processing unit configured to:

determine a target BWP to be switched to for the terminal, wherein the terminal is configured with an initial BWP and a separate small data transmission (SDT) BWP, the terminal is triggered to enter from a connected state to an inactive state, and the target BWP comprises the initial BWP or the separate SDT BWP; and

switch from an active BWP to the target BWP;

wherein the processing unit is further configured to:

determine that a condition for switching to the separate SDT BWP is met, and switch to the separate SDT BWP; or

determine that a condition for switching to the separate SDT BWP is not met, and switch to the initial BWP;

wherein the condition for switching to the separate SDT BWP comprises: the separate SDT BWP being configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel.

17. A network device, comprising:

a sending unit configured to send indication information, wherein the indication information indicates a target BWP to be switched to when entering an inactive state from a connected state, and the target BWP comprises an initial BWP or a separate SDT BWP, wherein the target BWP is

determined by:

determining that a condition for switching to the separate SDT BWP is met, and switching to the separate SDT BWP; or

determining that a condition for switching to the separate SDT BWP is not met, and switching to the initial BWP;

wherein the condition for switching to the separate SDT BWP comprises: the separate SDT BWP being configured with one or more parameters for at least one of the following signals or channels: SSB, paging message, system message, and random access channel.

18. A BWP switching device, comprising:

a processor; and

a memory configured to store processor-executable instructions;

wherein the processor is configured to: execute the BWP switching method according to any one of claims 1 to 15.

19. A storage medium, having stored therein instructions that, when executed by a processor of a terminal, cause the terminal to perform the BWP switching method according to any one of claims 1 to 15.