

CLAIMS

What is claimed is:

1. An information transmission method, wherein the method is applied to a terminal and the method comprises:

5 receiving capability enquiry signaling from a network device; and
 sending capability information of the terminal to the network device,
 wherein the capability information comprises: a first capability item and dual active protocol stack DAPS capability information supported by the terminal and corresponding to the first capability item, and a second capability item and carrier aggregation CA capability information
10 supported by the terminal and corresponding to the second capability item.

2. The method according to claim 1, wherein the capability information comprises a specific parameter of each band in multiple band combinations;

 the DAPS capability information supported by the terminal and corresponding to the first capability item is a specific parameter of each band in one band combination of the multiple band
15 combinations; and/or

 the CA capability information supported by the terminal and corresponding to the second capability item is a specific parameter of each band in one band combination of the multiple band combinations.

3. The method according to claim 2, wherein when the DAPS capability information
20 supported by the terminal is different from the CA capability information supported by the terminal, the first capability item and the second capability item correspond to a specific parameter of each band in different band combinations.

4. The method according to claim 2, wherein when the DAPS capability information supported by the terminal is same as the CA capability information supported by the terminal, the
25 first capability item and the second capability item correspond to a specific parameter of each band in a same band combination.

5. The method according to any one of claims 1 to 4, wherein the DAPS capability information supported by the terminal and corresponding to the first capability item comprises at least one of the following: an uplink DAPS capability and a downlink DAPS capability at a per

band granularity, or an uplink DAPS capability and a downlink DAPS capability at a per carrier granularity.

6. An information transmission method, wherein the method is applied to a network device and the method comprises:

5 sending capability enquiry signaling to a terminal; and

 wherein the capability information comprises a first capability item and dual active protocol stack DAPS capability information supported by the terminal and corresponding to the first capability item, and a second capability item and carrier aggregation CA capability information supported by the terminal and corresponding to the second capability item.

10 7. The method according to claim 6, wherein the capability information comprises a specific parameter of each band in multiple band combinations;

 the DAPS capability information supported by the terminal and corresponding to the first capability item is a specific parameter of each band in one band combination of the multiple band combinations; and/or

15 the CA capability information supported by the terminal and corresponding to the second capability item is a specific parameter of each band in one band combination of the multiple band combinations.

 8. The method according to claim 7, wherein when the DAPS capability information supported by the terminal is different from the CA capability information supported by the terminal,
20 the first capability item and the second capability item correspond to a specific parameter of each band in different band combinations.

 9. The method according to claim 7, wherein when the DAPS capability information supported by the terminal is same as the CA capability information supported by the terminal, the first capability item and the second capability item correspond to a specific parameter of each band
25 in a same band combination.

 10. The method according to any one of claims 6 to 9, wherein the DAPS capability information supported by the terminal and corresponding to the first capability item comprises at least one of the following: an uplink DAPS capability and a downlink DAPS capability at a per band granularity, or an uplink DAPS capability and a downlink DAPS capability at a per carrier
30 granularity.

 11. An information transmission apparatus, applied to a terminal, the apparatus comprising:

a receiving module, configured to receive capability enquiry signaling from a network device;
and

a sending module, configured to send capability information of the terminal to the network device,

5 wherein the capability information comprises: a first capability item and dual active protocol stack DAPS capability information supported by the terminal and corresponding to the first capability item, and a second capability item and carrier aggregation CA capability information supported by the terminal and corresponding to the second capability item.

12. The apparatus according to claim 11, wherein the capability information comprises a
10 specific parameter of each band in multiple band combinations;

the DAPS capability information supported by the terminal and corresponding to the first capability item is a specific parameter of each band in one band combination of the multiple band combinations; and/or

the CA capability information supported by the terminal and corresponding to the second
15 capability item is a specific parameter of each band in one band combination of the multiple band combinations.

13. The apparatus according to claim 12, wherein when the DAPS capability information supported by the terminal is different from the CA capability information supported by the terminal, the first capability item and the second capability item correspond to a specific parameter of each
20 band in different band combinations.

14. The apparatus according to claim 12, wherein when the DAPS capability information supported by the terminal is same as the CA capability information supported by the terminal, the first capability item and the second capability item correspond to a specific parameter of each band in a same band combination.

25 15. The apparatus according to any one of claims 11 to 14, wherein the DAPS capability information supported by the terminal and corresponding to the first capability item comprises at least one of the following: an uplink DAPS capability and a downlink DAPS capability at a per band granularity, or an uplink DAPS capability and a downlink DAPS capability at a per carrier granularity.

30 16. An information transmission apparatus, applied to a network device, the apparatus comprising:

a sending module, configured to send capability enquiry signaling to a terminal; and
a receiving module, configured to receive capability information from the terminal,
wherein the capability information comprises a first capability item and dual active protocol
stack DAPS capability information supported by the terminal and corresponding to the first
5 capability item, and a second capability item and carrier aggregation CA capability information
supported by the terminal and corresponding to the second capability item.

17. The apparatus according to claim 16, wherein the capability information comprises a
specific parameter of each band in multiple band combinations;

the DAPS capability information supported by the terminal and corresponding to the first
10 capability item is a specific parameter of each band in one band combination of the multiple band
combinations; and/or

the CA capability information supported by the terminal and corresponding to the second
capability item is a specific parameter of each band in one band combination of the multiple band
combinations.

15 18. The apparatus according to claim 17, wherein when the DAPS capability information
supported by the terminal is different from the CA capability information supported by the terminal,
the first capability item and the second capability item correspond to a specific parameter of each
band in different band combinations.

19. The apparatus according to claim 17, wherein when the DAPS capability information
20 supported by the terminal is same as the CA capability information supported by the terminal, the
first capability item and the second capability item correspond to a specific parameter of each band
in a same band combination.

20. The apparatus according to any one of claims 16 to 19, wherein the DAPS capability
information supported by the terminal and corresponding to the first capability item comprises at
25 least one of the following: an uplink DAPS capability and a downlink DAPS capability at a per
band granularity, or an uplink DAPS capability and a downlink DAPS capability at a per carrier
granularity.

21. A communication apparatus, comprising: a processor, configured to execute computer
instructions stored in a memory, the computer instructions, when being executed, enabling the
30 apparatus to perform the method according to any one of claims 1 to 5.

22. A communication apparatus, comprising: a processor, configured to execute computer

instructions stored in a memory, the computer instructions, when being executed, enabling the apparatus to perform the method according to any one of claims 6 to 10.

23. A communication apparatus, comprising: a processor and an interface circuit, wherein the processor is configured to communicate with another apparatus through the interface circuit, and
5 perform the method according to any one of claims 1 to 5.

24. A communication apparatus, comprising: a processor and an interface circuit, wherein the processor is configured to communicate with another apparatus through the interface circuit, and perform the method according to any one of claims 6 to 10.

25. A computer-readable storage medium, comprising computer software instructions,
10 wherein

when the computer software instructions run in a terminal or a chip built in a terminal, the terminal is enabled to perform the method according to any one of claims 1 to 5.

26. A computer-readable storage medium, comprising computer software instructions,
wherein

15 when the computer software instructions run in a network device or a chip built in a network device, the network device is enabled to perform the method according to any one of claims 6 to 10.

27. A communication system, comprising: a network device and a terminal, wherein
the terminal performs the method according to any one of claims 1 to 5; and
20 the network device performs the method according to any one of claims 6 to 10.