CLAIMS

What is claimed is:

1. A communication method, comprising:

transmitting, by a terminal device, first capability information to a first network device, wherein the first capability information indicates that the terminal device supports sending first information by using a maximum of a first bandwidth size of bandwidth, and the first information is a sounding reference signal (SRS);

transmitting, by the terminal device, second capability information to a second network device, wherein the second capability information indicates that the terminal device supports sending second information by using a maximum of a second bandwidth size of bandwidth, and the second information comprises at least one of data or control information;

obtaining, by the terminal device, first configuration information, wherein the first configuration information indicates that a size of bandwidth configured for the first information is not greater than the first bandwidth size; and

obtaining, by the terminal device, second configuration information, wherein the second configuration information indicates that a size of bandwidth configured for the second information is not greater than the second bandwidth size.

2. The method according to claim 1, wherein the first bandwidth size is greater than the second bandwidth size.

3. The method according to claim 1, wherein the first bandwidth size belongs to a first bandwidth size set, and at least one bandwidth size in the first bandwidth size set is greater than the second bandwidth size.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

sending, by the terminal device, third capability information to the first network device or the second network device; and

the third capability information indicates:

whether the terminal device supports sending and/or receiving the first information in a carrier aggregation manner; and/or

the terminal device supports sending and/or receiving the first information by using a maximum of M carriers, wherein M is a positive integer.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

sending, by the terminal device, fourth capability information to the first network device or the second network device; and

the fourth capability information indicates:

the terminal device does not support sending and/or receiving the second information in a carrier aggregation manner; or

the terminal device supports sending and/or receiving the second information by using a maximum of N carriers, wherein N is a positive integer.

6. The method according to claim 5, wherein N is less than M; or

N is not greater than M.

7. A communication method, comprising:

receiving, by a network device, first capability information from a terminal device, wherein the first capability information indicates that the terminal device supports sending first information by using a maximum of a first bandwidth size of bandwidth, and the first information is a sounding reference signal (SRS);

receiving, by the network device, second capability information from the terminal device, wherein the second capability information indicates that the terminal device supports sending second information by using a maximum of a second bandwidth size of bandwidth, and the second information comprises at least one of data or control information;

sending, by the network device, first configuration information to the terminal device, wherein the first configuration information indicates that a size of bandwidth configured for the first information is not greater than the first bandwidth size; and

sending, by the network device, second configuration information to the terminal device, wherein the second configuration information indicates that a size of bandwidth configured for the second information is not greater than the second bandwidth size.

8. The method according to claim 7, wherein the first bandwidth size is greater than the second bandwidth size.

9. The method according to claim 7, wherein the first bandwidth size belongs to a first bandwidth size set, and at least one bandwidth size in the first bandwidth size set is greater than the second bandwidth size.

10. The method according to any one of claims 7 to 9, wherein the method further comprises:

receiving, by the network device, third capability information from the terminal device; and

the third capability information indicates:

whether the terminal device supports sending and/or receiving the first information in a carrier aggregation manner; and/or

the terminal device supports sending and/or receiving the first information by using a maximum of M carriers, wherein M is a positive integer.

11. The method according to any one of claims 7 to 10, wherein the method further comprises:

receiving, by the network device, fourth capability information from the terminal device; and

the fourth capability information indicates:

the terminal device does not support sending and/or receiving the second information in a carrier aggregation manner; or

the terminal device supports sending and/or receiving the second information by using a maximum of N carriers, wherein N is a positive integer.

12. The method according to claim 11, wherein N is less than M; or

N is not greater than M.

13. A communication apparatus, comprising:

a transceiver module, configured to transmit first capability information to a first network device, wherein the first capability information indicates that the terminal device supports sending first information by using a maximum of a first bandwidth size of bandwidth, and the first information is a sounding reference signal (SRS);

the transceiver module is configured to transmit second capability information to a second network device, wherein the second capability information indicates that the terminal device supports sending second information by using a maximum of a second bandwidth size of bandwidth, and the second information comprises at least one of data or control information; and

a processing module, configured to obtain first configuration information, wherein the first configuration information indicates that a size of bandwidth configured for the first information is not greater than the first bandwidth size;

the processing module is configured to obtain second configuration information, wherein the second configuration information indicates that a size of bandwidth configured for the second information is not greater than the second bandwidth size.

14. A communication apparatus, wherein the communication apparatus comprises a

processing module and a transceiver module;

the processing module is configured to receive, by using the transceiver module, first capability information from a terminal device, wherein the first capability information indicates that the terminal device supports sending first information by using a maximum of a first bandwidth size of bandwidth, and the first information comprises is sounding reference signal (SRS);

the processing module is configured to receive, by using the transceiver module, second capability information from the terminal device, wherein the second capability information indicates that the terminal device supports sending second information by using a maximum of a second bandwidth size of bandwidth, and the second information comprises at least one of data or control information;

the processing module is configured to send first configuration information to the terminal device by using the transceiver module, wherein the first configuration information indicates that a size of bandwidth configured for the first information is not greater than the first bandwidth size; and

the processing module is configured to send second configuration information to the terminal device by using the transceiver module, wherein the second configuration information indicates that a size of bandwidth configured for the second information is not greater than the second bandwidth size.

15. A communication system, wherein the communication system comprises a terminal device and a network device;

the terminal device is configured to perform the method according to any one of claims 1 to 6; and

the network device is configured to perform the method according to any one of claims 7 to 12.

16. A communication system, wherein the communication system comprises a terminal device, a first network device, and a second network device;

the terminal device is configured to perform the method according to any one of claims 1 to 6;

the first network device is configured to receive first capability information from the terminal device, wherein the first capability information indicates that the terminal device supports sending

first information by using a maximum of a first bandwidth size of bandwidth, and the first information is a sounding reference signal (SRS);

the second network device is configured to receive second capability information from the terminal device, wherein the second capability information indicates that the terminal device supports sending second information by using a maximum of a second bandwidth size of bandwidth, and the second information comprises at least one of data or control information;

the first network device is configured to send first configuration information to the terminal device, wherein the first configuration information indicates that a size of bandwidth configured for the first information is not greater than the first bandwidth size; and

the second network device is configured to send second configuration information to the terminal device, wherein the second configuration information indicates that a size of bandwidth configured for the second information is not greater than the second bandwidth size.

17. A computer-readable storage medium, wherein the storage medium stores at least one instruction, and when the instructions are run on a computer, the computer is enabled to perform the communication method according to any one of claims 1 to 6 or claims 7 to 12.

18. A computer program product, wherein the computer program product comprises one or more computer program instructions, and when the computer program instructions are loaded and run on a computer, the computer is enabled to perform the communication method according to any one of claims 1 to 6 or claims 7 to 12.