

CLAIMS

1. A communication method, comprising:

generating, by a terminal device, terminal capability information, the terminal capability information indicating a terminal capability of the terminal device under the condition that a first parameter is configured and a support capability of the terminal device for a second parameter; and

sending, by the terminal device, the terminal capability information to a network device; wherein

the first parameter comprises at least one of first basic parameter sets or first carrier bandwidths, and the second parameter comprises second basic parameter sets and second carrier bandwidths;

the second basic parameter sets comprise M basic parameter sets, the terminal capability information comprises first information for indicating a support capability of the terminal device for each set of the M basic parameter sets; and

the second carrier bandwidths comprise N carrier bandwidths, the terminal capability information comprises second information for indicating a support capability of the terminal device for each of the N carrier bandwidths.

2. The communication method of claim 1, wherein the terminal capability information comprises third information for indicating a support capability of the terminal device for a second parameter combination and the second parameter combination comprises the second basic parameter set and the second carrier bandwidth.

3. The communication method of any one of claims 1-2, wherein the terminal capability information comprises fourth information for indicating a terminal capability of the terminal device under the condition that a first parameter combination is configured and the first parameter combination comprises the first basic parameter set and the first carrier bandwidth.

4. The communication method according to any one of claims 1-3, wherein sending, by the terminal device, the terminal capability information to the network device comprises:

sending, by the terminal device, the terminal capability information through Radio Resource Control (RRC) signaling.

5. A communication method, comprising:

sending, by a network device, an indication message to a terminal device, the indication message indicating the terminal device to send a terminal capability of the terminal device under the condition that a first parameter is configured and a support capability of the terminal device for a second parameter; and

receiving, by the network device, terminal capability information from the terminal device, the terminal capability information indicating the terminal capability of the terminal device under the condition that the first parameter is configured and the support capability of the terminal device for the second parameter; wherein

the first parameter comprises at least one of first basic parameter sets or first carrier bandwidths, and the second parameter comprises second basic parameter sets and second carrier bandwidths;

the second basic parameter sets comprise M basic parameter sets, the indication message comprises first indication information for indicating the terminal device to send a support capability for each set of the M basic parameter sets; and

the second carrier bandwidths comprise N carrier bandwidths, the indication message comprises second indication information for indicating the terminal device to send a support capability for each of the N carrier bandwidths.

6. The communication method of claim 5, wherein the indication message comprises third indication information for indicating the terminal device to send a support capability for a second parameter combination and the second parameter combination comprises the second basic parameter set and the second carrier bandwidth.

7. The communication method of any one of claims 5-6, wherein the indication message comprises fourth indication information for indicating the terminal device to send a terminal capability of the terminal device under the condition that a first parameter combination is configured and the first parameter combination comprises the first basic parameter set and the first carrier bandwidth.

8. The communication method according to any one of claims 5-7, wherein receiving, by the network device, the terminal capability information from the terminal device comprises:

receiving, by the network device, the terminal capability information through Radio Resource Control (RRC) signaling.

9. A terminal device, comprising:

a generation module, configured to generate terminal capability information, the terminal capability information indicating a terminal capability of the terminal device under the condition that a first parameter is configured and a support capability of the terminal device for a second parameter; and

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

the first parameter comprises at least one of first basic parameter sets or first carrier bandwidths, and the second parameter comprises second basic parameter sets and second carrier bandwidths;

the second basic parameter sets comprise M basic parameter sets, the terminal capability information comprises first information for indicating a support capability of the terminal device for each set of the M basic parameter sets; and

the second carrier bandwidths comprise N carrier bandwidths, the terminal capability information comprises second information for indicating a support capability of the terminal device for each of the N carrier bandwidths.

10. The terminal device of claim 9, wherein the terminal capability information comprises third information for indicating a support capability of the terminal device for a second parameter combination and the second parameter combination comprises the second basic parameter set and the second carrier bandwidth.

11. The terminal device of any one of claims 9-10, wherein the terminal capability information comprises fourth information for indicating a terminal capability of the terminal device under the condition that a first parameter combination is configured and

the first parameter combination comprises the first basic parameter set and the first carrier bandwidth.

12. The terminal device of any one of claims 9-11, wherein the sending module is specifically configured to send the terminal capability information through Radio Resource Control (RRC) signaling.

13. A network device, comprising:

a sending module, configured to send an indication message to a terminal device, the indication message indicating the terminal device to send a terminal capability of the terminal device under the condition that a first parameter is configured and a support capability of the terminal device for a second parameter; and

a receiving module, configured to receive terminal capability information from the terminal device, the terminal capability information indicating the terminal capability of the terminal device under the condition that the first parameter is configured and the support capability of the terminal device for the second parameter; wherein

the first parameter comprises at least one of first basic parameter sets or first carrier bandwidths, and the second parameter comprises second basic parameter sets and second carrier bandwidths;

the second basic parameter sets comprise M basic parameter sets, the indication message comprises first indication information for indicating the terminal device to send a support capability for each set of the M basic parameter sets; and

the second carrier bandwidths comprise N carrier bandwidths, the indication message comprises second indication information for indicating the terminal device to send a support capability for each of the N carrier bandwidths.

14. The network device of claim 13, wherein the indication message comprises third indication information for indicating the terminal device to send a support capability for a second parameter combination and the second parameter combination comprises the second basic parameter set and the second carrier bandwidth.

15. The network device of any one of claims 13-14, wherein the indication message comprises fourth indication information for indicating the terminal device to send a terminal capability of the terminal device under the condition that a first parameter combination is configured and the first parameter combination comprises the first basic parameter set and the first carrier bandwidth.

16. The network device of any one of claims 13-15, wherein the receiving module is specifically configured to receive the terminal capability information through Radio Resource Control (RRC) signaling.