CLAIMS

1. A method for transmission of a pilot signal, comprising:

receiving, by a first device, a first message sent by a second device, the first message indicating the first device to receive or send a pilot signal, the first message comprising resource configuration information of the pilot signal; and

sending, by the first device, the pilot signal to the second device according to the resource configuration information or receiving, by the first device, the pilot signal sent by the second device according to the resource configuration information.

2. The method of claim 1, wherein sending, by the first device, the pilot signal to the second device or receiving, by the first device, the pilot signal sent by the second device comprises:

sending, by the first device, the pilot signal to the second device in a time-domain resource unit transmitting the first message or receiving the pilot signal sent by the second device in a time-domain resource unit transmitting the first message.

3. The method of claim 1 or 2, wherein the resource configuration information comprises at least one of time-domain resource configuration information, frequency-domain resource configuration information or sequence configuration information of the pilot signal.

4. The method of claim 3, wherein the time-domain resource configuration information indicates at least one of timing information of the pilot signal or time-domain physical resource information adopted for transmission of the pilot signal.

5. The method of claim 4, wherein the timing information indicates a time-domain location of the pilot signal relative to the first message or a time-domain location of the pilot signal relative to data transmission scheduled by the first message.

6. The method of claim 4 or 5, wherein the time-domain physical resource information indicates at least one of an index of each of time-domain resource units adopted for transmission of the pilot signal in a predetermined time or a total number of the time-domain resource units.

7. The method of any one of claims 3-6, wherein the frequency-domain resource configuration information indicates at least one of a transmission bandwidth of the pilot signal, a transmission density of the pilot signal, a frequency-domain starting location for transmission of the pilot signal or a subcarrier spacing adopted for transmission of the pilot signal.

8. The method of any one of claims 3-7, wherein the sequence configuration information indicates at least one of information about a scrambling sequence used in generating the pilot signal or information about a root sequence used in generating the pilot signal.

9. The method of any one of claims 1-8, wherein the first message is further configured

to schedule data transmitted between the first device and the second device.

10. The method according to any one of claims 1-9, wherein the first message is Downlink Control Information (DCI) signaling.

11. The method of any one of claims 1-10, wherein the pilot signal is a Sounding Reference Signal (SRS), a Channel State Information Reference Signal (CSI-RS), a Demodulation Reference Signal (DMRS), a Cell-specific Reference Signal (CRS) or a Beam Management Reference Signal (BMRS).

12. The method of any one of claims 1-11, wherein the first device is a terminal device and the second device is a network device.

13. A method for transmission of a pilot signal, comprising:

sending, by a second device, a first message to a first device, the first message indicating the first device to receive or send a pilot signal and comprising resource configuration information of the pilot signal; and

sending, by the second device, the pilot signal to the first device according to the resource configuration information or receiving, by the second device, the pilot signal sent by the first device according to the resource configuration information.

14. A communication device, comprising:

a first transceiver unit, configured to receive a first message sent by a second device, the first message indicating the communication device to receive or send a pilot signal, the first message comprising resource configuration information of the pilot signal; and

a second transceiver unit, configured to send the pilot signal to the second device according to the resource configuration information or receive the pilot signal sent by the second device according to the resource configuration information.

15. The communication device of claim 14, wherein the second transceiver unit is specifically configured to:

send the pilot signal to the second device in a time-domain resource unit transmitting the first message or receive the pilot signal sent by the second device in a time-domain resource unit transmitting the first message.

16. The communication device of claim 14 or 15, wherein the resource configuration information comprises at least one of time-domain resource configuration information, frequency-domain resource configuration information or sequence configuration information of the pilot signal.

17. The communication device of claim 16, wherein the time-domain resource configuration information indicates at least one of timing information of the pilot signal or time-domain physical resource information adopted for transmission of the pilot signal.

18. The communication device of claim 17, wherein the timing information indicates a time-domain location of the pilot signal relative to the first message or a time-domain

location of the pilot signal relative to data transmission scheduled by the first message.

19. The communication device of claim 17 or 18, wherein the time-domain physical resource information indicates at least one of an index of each of time-domain resource units adopted for transmission of the pilot signal in a predetermined time or a total number of the time-domain resource units.

20. The communication device of any one of claims 16-19, wherein the frequency-domain resource configuration information indicates at least one of a transmission bandwidth of the pilot signal, a transmission density of the pilot signal, a frequency-domain starting location for transmission of the pilot signal or a subcarrier spacing adopted for transmission of the pilot signal.

21. The communication device of any one of claims 16-20, wherein the sequence configuration information indicates at least one of information about a scrambling sequence used in generating the pilot signal or information about a root sequence used in generating the pilot signal.

22. The communication device of any one of claims 14-21, wherein the first message is further configured to schedule data transmitted between the communication device and the second device.

23. The communication device according to any one of claims 14-22, wherein the first message is Downlink Control Information (DCI) signaling.

24. The communication device of any one of claims 14-23, wherein the pilot signal is a Sounding Reference Signal (SRS), a Channel State Information Reference Signal (CSI-RS), a Demodulation Reference Signal (DMRS), a Cell-specific Reference Signal (CRS) or a Beam Management Reference Signal (BMRS).

25. A communication device, comprising:

a first transceiver unit, configured to send a first message to a first device, the first message indicating the first device to receive or send a pilot signal and comprising resource configuration information of the pilot signal; and

a second transceiver unit, configured to send the pilot signal to the first device or receive the pilot signal sent by the first device according to the resource configuration information.