

CLAIMS

1. A method for transmission of a Channel State Information Reference Signal (CSI-RS), comprising:
 - receiving, by a first device, a first message sent by a second device, wherein the first message indicates the first device to receive the CSI-RS and comprises resource configuration information of the CSI-RS, and the first message is Downlink Control Information (DCI) signaling and is configured to schedule data transmitted from the first device to the second device; and
 - receiving, by the first device, the CSI-RS sent by the second device according to the resource configuration information comprised in the first message.
2. The method of claim 1, wherein receiving, by the first device, the CSI-RS sent by the second device comprises:
 - receiving the CSI-RS 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 CSI-RS.
4. The method of claim 3, wherein the time-domain resource configuration information indicates at least one of timing information of the CSI-RS or time-domain physical resource information adopted for transmission of the CSI-RS.
5. The method of claim 4, wherein the timing information indicates a time-domain location of the CSI-RS relative to the first message or a time-domain location of the CSI-RS 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 CSI-RS 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 CSI-RS, a transmission density of the CSI-RS, a frequency-domain starting location for transmission of the CSI-RS or a subcarrier spacing adopted for transmission of the CSI-RS.
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 CSI-RS or information about a root sequence used in generating the CSI-RS.
9. The method of any one of claims 1-8, wherein the first device is a terminal device

and the second device is a network device.

10. A method for transmission of a Channel State Information Reference Signal (CSI-RS), comprising:

sending, by a second device, a first message to a first device, wherein the first message indicates the first device to receive the CSI-RS and comprises resource configuration information of the CSI-RS, and the first message is Downlink Control Information (DCI) signaling and is configured to schedule data transmitted from the first device to the second device; and

sending, by the second device, the CSI-RS to the first device according to the resource configuration information comprised in the first message.

11. A communication device, comprising:

a first transceiver unit, configured to receive a first message sent by a second device, wherein the first message indicates the communication device to receive a Channel State Information Reference Signal (CSI-RS) and comprises resource configuration information of the CSI-RS, and the first message is Downlink Control Information (DCI) signaling and is configured to schedule data transmitted from the first device to the second device; and

a second transceiver unit, configured to receive the CSI-RS sent by the second device according to the resource configuration information comprised in the first message.

12. The communication device of claim 11, wherein the second transceiver unit is specifically configured to:

receive the CSI-RS sent by the second device in a time-domain resource unit transmitting the first message.

13. The communication device of claim 11 or 12, 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 CSI-RS.

14. The communication device of claim 13, wherein the time-domain resource configuration information indicates at least one of timing information of the CSI-RS or time-domain physical resource information adopted for transmission of the CSI-RS.

15. The communication device of claim 14, wherein the timing information indicates a time-domain location of the CSI-RS relative to the first message or a time-domain location of the CSI-RS relative to data transmission scheduled by the first message.

16. The communication device of claim 14 or 15, 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 CSI-RS in a predetermined time or a total number of the time-domain resource units.

17. The communication device of any one of claims 13-16, wherein the frequency-domain resource configuration information indicates at least one of a transmission

bandwidth of the CSI-RS, a transmission density of the CSI-RS, a frequency-domain starting location for transmission of the CSI-RS or a subcarrier spacing adopted for transmission of the CSI-RS.

18. The communication device of any one of claims 13-17, wherein the sequence configuration information indicates at least one of information about a scrambling sequence used in generating the CSI-RS or information about a root sequence used in generating the CSI-RS.

19. A communication device, comprising:

a first transceiver unit, configured to send a first message to a first device, wherein the first message indicates the first device to receive a Channel State Information Reference Signal (CSI-RS) and comprises resource configuration information of the CSI-RS, and the first message is Downlink Control Information (DCI) signaling and is configured to schedule data transmitted from the first device to the second device; and

a second transceiver unit, configured to send the CSI-RS to the first device according to the resource configuration information comprised in the first message.