

WHAT IS CLAIMED IS:

1. A method for requesting a positioning reference signal (PRS) configuration, performed by a first communication node, the method comprising:

sending a message carrying a suggested PRS configuration, wherein the suggested PRS configuration is a PRS configuration suggested by the first communication node for terminal positioning.

2. The method as claimed in claim 1, wherein sending the message carrying the suggested PRS configuration comprises:

sending a request message carrying the suggested PRS configuration, wherein the request message is configured to request to obtain a target PRS configuration for a terminal to perform positioning measurement.

3. The method as claimed in claim 2, wherein the first communication node comprises a terminal; and sending the request message carrying the suggested PRS configuration comprises:

sending a random access request message carrying the suggested PRS configuration to a first base station; or,

sending a radio resource control (RRC) message carrying the suggested PRS configuration to the first base station.

4. The method as claimed in claim 3, further comprising:

receiving a message that is sent by the first base station and carries the target PRS configuration, wherein the target PRS configuration is determined by the first base station based on the suggested PRS configuration.

5. The method as claimed in claim 4, wherein receiving the message that is sent by the first base station and carries the target PRS configuration comprises:

receiving an RRC message that is sent by the first base station and carries the target PRS configuration.

6. The method as claimed in claim 2, wherein the first communication node comprises a

terminal; and sending the request message carrying the suggested PRS configuration comprises:
sending a long-term-evolution positioning protocol (LPP) message carrying the suggested PRS configuration to a core network element.

7. The method as claimed in claim 6, further comprising:

receiving a message that is sent by the core network element and carries the target PRS configuration, wherein the target PRS configuration is determined by the core network element based on the suggested PRS configuration.

8. The method as claimed in claim 6, wherein receiving the message that is sent by the core network element and carries the target PRS configuration comprises:

receiving an LPP message that is sent by the core network element and carries the target PRS configuration.

9. The method as claimed in claim 2, wherein the first communication node comprises a core network element; and sending the request message carrying the suggested PRS configuration comprises:

sending an NRPPa message carrying the suggested PRS configuration to a first base station.

10. The method as claimed in claim 9, further comprising:

receiving a message that is sent by the first base station and carries the target PRS configuration, wherein the target PRS configuration is determined by the first base station based on the suggested PRS configuration.

11. The method as claimed in claim 10, wherein receiving the message that is sent by the first base station and carries the target PRS configuration comprises:

receiving an NRPPa message that is sent by the first base station and carries the target PRS configuration.

12. The method as claimed in claim 11, further comprising:

sending a message carrying the target PRS configuration to the terminal.

13. The method as claimed in claim 12, wherein sending the message carrying the target PRS configuration to the terminal comprises:

 sending a long-term-evolution positioning protocol (LPP) message carrying the target PRS configuration to the terminal.

14. The method as claimed in any one of claims 1 to 13, wherein the suggested PRS configuration comprises at least one of the following parameters:

 a transmission period of the PRS;

 a transmission bandwidth of the PRS; or

 a transmission pattern of the PRS.

15. A method for requesting a positioning reference signal (PRS) configuration, performed by a second communication node, the method comprising:

 receiving a message carrying a suggested PRS configuration, wherein the suggested PRS configuration is a PRS configuration suggested for terminal positioning.

16. The method as claimed in claim 15, wherein receiving the message carrying the suggested PRS configuration comprises:

 receiving a request message carrying the suggested PRS configuration, wherein the request message is configured to request to obtain a target PRS configuration for the terminal to perform positioning measurement.

17. The method as claimed in claim 15 or 16, further comprising:

 determining a target PRS configuration according to the suggested PRS configuration.

18. A method for requesting a positioning reference signal (PRS) configuration, performed by a third communication node, the method comprising:

 receiving a message carrying a target PRS configuration for a terminal to perform positioning measurement, wherein the target PRS configuration is determined according to a suggested PRS configuration.

19. A communication device, comprising:

an antenna;

a memory; and

a processor, connected to the antenna and the memory respectively, configured to, by executing computer-executable instructions stored on the memory, control transmission and reception of the antenna and perform the method in any one of claims 1 to 14, 15 to 17, or 18.

20. A computer storage medium storing computer-executable instructions, wherein the computer-executable instructions are executed by a processor, the method in any one of claims 1 to 14, 15 to 17, or 18 is performed.