CLAIMS

WHAT IS CLAIMED IS:

1. A method for reference signal transmission, performed by a terminal, the method comprising:

determining a positioning request,

wherein the positioning request is configured to indicate a network device to send resource configuration parameters of a positioning reference signal (PRS) to the terminal; and the network device is a network element with a location management function.

2. The method of claim 1, further comprising:

transmitting the PRS based on the positioning request, in a case that the positioning request is configured to indicate the network device to send the resource configuration parameters of the PRS to the terminal.

3. The method of claim 1, further comprising:

sending the positioning request to the network device.

4. The method of any one of claims 1 to 3, wherein the resource configuration parameters comprise at least one of a resource mapping identifier or a beam identifier;

wherein the PRS comprises: an uplink signal for positioning; or a downlink PRS;

wherein at least one of a first correspondence between resource mapping identifiers and time-frequency resource location parameters or a second corresponding relationship between beam identifiers and reference signal identifiers indicating beam directions is preconfigured, wherein the time-frequency resource location parameters comprise at least one of: frequency domain parameters, time domain parameters and space domain parameters;

wherein the method further comprises: receiving resource indication information sent by the network device, wherein the resource indication information comprises at least one of: a mapping relationship between resource mapping identifiers and time-frequency resource location parameters, and a mapping relationship between beam identifiers and reference signal identifiers indicating beam directions; the resource indication information is information of at least one of a resource position or a beam direction in which the network device indicates to the terminal to transmit the PRS.

5. A method for reference signal transmission, performed by a network device, the method comprising:

determining a positioning request,

wherein the positioning request is configured to indicate the network device to send resource configuration parameters of a positioning reference signal (PRS) to a terminal; and the network device is a network element with a location management function.

6. The method of claim 5, further comprising:

transmitting the PRS based on the positioning request, in a case that the positioning request is configured to indicate the network device to send the resource configuration parameters of the PRS to the terminal;

wherein determining the positioning request comprises: receiving the positioning request sent by the terminal.

7. The method of any one of claims 5 to 6, wherein the resource configuration parameters comprise at least one of a resource mapping identifier or a beam identifier;

wherein the PRS comprises: an uplink signal for positioning; or a downlink PRS;

wherein at least one of a first correspondence between resource mapping identifiers and time-frequency resource location parameters or a second corresponding relationship between beam identifiers and reference signal identifiers indicating beam directions is preconfigured, wherein the time-frequency resource location parameters comprise at least one of: frequency domain parameters, time domain parameters and space domain parameters;

wherein the method further comprises: sending resource indication information to the terminal, wherein the resource indication information comprises at least one of: a mapping relationship between resource mapping identifiers and time-frequency resource location parameters, and a mapping relationship between beam identifiers and reference signal identifiers indicating beam directions; the resource indication information is information of at least one of a resource position or a beam direction in which the network device indicates to the terminal to transmit the PRS.

8. A terminal, comprising:

a processor;

a transceiver connected to the processor; and

a memory configured to store an instruction executable by the processor;

wherein, the processor is configured to load and execute the executable instruction to implement the method for reference signal transmission according to any one of claims 1 to 4.