

WHAT IS CLAIMED IS:

1. A method for selecting a terminal for ranging or sidelink (SL) positioning, performed by a first terminal, comprising:

sending first request information, wherein the first request information requests a core network device to select a second terminal from at least one candidate terminal or assign a second terminal to the first terminal, the candidate terminal is related to information of the first terminal, and information of the second terminal is used for performing the ranging or SL positioning on the first terminal.

2. The method according to claim 1, wherein the first request information comprises at least one of:

quality of service (QoS) required for positioning;

terminal preference;

a first candidate terminal list, wherein the first candidate terminal list is empty;

a second candidate terminal list, wherein the second candidate terminal list comprises information of the at least one candidate terminal;

first indication information, wherein the first indication information instructs the core network device to select the second terminal; or

second indication information, wherein the second indication information instructs the core network device to assign the second terminal to the first terminal;

wherein the information of the candidate terminal comprises at least one of:

an identifier of the candidate terminal; or

terminal capability information, wherein the terminal capability information at least comprises a positioning capability supported by the candidate terminal.

3. The method according to any one of claims 1 to 2, wherein sending the first request information comprises one of:

in a case that the at least one candidate terminal is determined based on the information of the first terminal, sending the first request information, wherein the first request information requests the core network device to select the second terminal from the at least one candidate terminal; or

in a case that the candidate terminal is not determined based on the information of the first terminal, sending the first request information, wherein the first request information requests the core network device to assign the second terminal to the first terminal.

4. The method according to any one of claims 1 to 3, wherein sending the first request information comprises one of:

sending the first request information to the core network device; or

sending the first request information to a third terminal;

wherein the third terminal comprises at least one of:

a candidate terminal, wherein a non-access stratum (NAS) connection between the candidate terminal and the core network device is available; or

a user equipment (UE) to network relay.

5. The method according to any one of claims 1 to 4, further comprising:

receiving first response information related to the first request information, wherein the first response information indicates the information of the second terminal selected by the core network device or the information of the second terminal assigned by the core network device to the first terminal.

6. The method according to claim 5, wherein receiving the first response information related to the first request information comprises one of:

receiving the first response information sent by the core network device; or

receiving the first response information sent by a third terminal;

wherein the third terminal comprises at least one of:

a candidate terminal, wherein a non-access stratum (NAS) connection between the candidate terminal and the core network device is available; or

a user equipment (UE) to network relay.

7. The method according to any one of claims 1 to 4, further comprising:

receiving second request information sent by the core network device, wherein the second request information indicates the information of the second terminal selected by the core network device or the information of the second terminal assigned by the core network device to the first terminal.

8. A method for selecting a terminal for ranging or sidelink (SL) positioning, performed by a core network device, comprising:

receiving first request information, wherein the first request information requests the core network device to select a second terminal from at least one candidate terminal or assign a second terminal to a first terminal, the candidate terminal is related to information of the first terminal, and information of the second terminal is used for performing the ranging or SL positioning on the first terminal.

9. The method according to claim 8, wherein the first request information comprises at least one of:

- quality of service (QoS) required for positioning;

- terminal preference;

- a first candidate terminal list, wherein the first candidate terminal list is empty;

- a second candidate terminal list, wherein the second candidate terminal list comprises information of the at least one candidate terminal;

- first indication information, wherein the first indication information instructs the core network device to select the second terminal; or

- second indication information, wherein the second indication information instructs the core network device to assign the second terminal to the first terminal;

- wherein the information of the candidate terminal comprises at least one of:

 - an identifier of the candidate terminal; or

 - terminal capability information, wherein the terminal capability information at least comprises a positioning capability supported by the candidate terminal.

10. The method according to any one of claims 8 to 9, wherein receiving the first request information comprises one of:

- receiving the first request information sent by the core network device; or

- receiving the first request information sent by a third terminal;

- wherein the third terminal comprises at least one of:

 - a candidate terminal, wherein a non-access stratum (NAS) connection between the candidate terminal and the core network device is available; or

 - a user equipment (UE) to network relay.

11. The method according to any one of claims 8 to 10, further comprising one of:
selecting the second terminal from the at least one candidate terminal based on the first request information; or

- assigning the second terminal to the first terminal based on the first request information.

12. The method according to any one of claims 8 to 11, further comprising:

- sending first response information related to the first request information, wherein the first response information indicates the information of the second terminal selected by the core network device or the information of the second terminal assigned by the core network device to the first terminal.

13. The method according to claim 12, wherein sending the first response information related to the first request information comprises one of:

sending the first response information to the first terminal; or

sending the first response information to a third terminal;

wherein the third terminal comprises at least one of:

a candidate terminal, wherein a non-access stratum (NAS) connection between the candidate terminal and the core network device is available; or

a user equipment (UE) to network relay.

14. The method according to any one of claims 8 to 11, further comprising:

sending second request information to the first terminal, wherein the second request information indicates the information of the second terminal selected by the core network device or the information of the second terminal assigned by the core network device to the first terminal.

15. A first terminal, comprising:

a processor; and

a memory configured to store instructions executable by a processor; wherein the processor is configured to:

send first request information, wherein the first request information requests a core network device to select a second terminal from at least one candidate terminal or assign a second terminal to the first terminal, the candidate terminal is related to information of the first terminal, and information of the second terminal is used for performing the ranging or SL positioning on the first terminal.

16. A core network device, comprising:

a processor;

a memory configured to store instructions executable by a processor; wherein the processor is configured to implement the method for selecting a terminal for ranging or sidelink (SL) positioning according to claim 8.