

WHAT IS CLAIMED IS:

1. A method for transmitting a reference signal for positioning, performed by a terminal, comprising:

acquiring first information, wherein the first information indicates a first carrier group for transmitting the reference signal for positioning, and the first carrier group comprises at least two carriers.

2. The method according to claim 1, further comprising:

receiving second information, wherein the second information indicates a priority for transmission of the reference signal for positioning relative to other channel/signal on each of the at least two carriers.

3. The method according to claim 2, wherein the priority for transmission of the reference signal for positioning on each of the at least two carriers is identical.

4. The method according to claim 2, wherein priorities for transmission of the reference signal for positioning on different carriers of the at least two carriers are different.

5. The method according to claim 4, wherein the first carrier group comprises a second carrier group, and

wherein a priority of transmitting the reference signal for positioning is higher than a priority of transmitting the other channel/signal on each carrier in the second carrier group.

6. The method according to claim 1, wherein acquiring the first information comprises: acquiring the first information from a core network (CN) device.

7. The method according to claim 2, wherein receiving the second information comprises: receiving the second information from a radio access network (RAN) device.

8. The method according to claim 2, wherein the other channel/signal comprises at least one of:

a synchronization signal and physical broadcast channel (PBCH) block (SSB) of a serving cell, a SSB of a neighbor cell, a physical downlink control channel (PDCCH) for an ultra-reliable and low latency communications (URLLC) service, a physical downlink shared channel (PDSCH) for the URLLC service, a PDCCH for other service than the URLLC service, a PDSCH for the other service than the URLLC service, a demodulation reference signal (DMRS), a channel state information reference signal (CSI-RS), a physical uplink control channel (PUCCH), a physical uplink shared channel (PUSCH), or a physical random access channel (PRACH).

9. The method according to claim 1, further comprising:

sending at least one piece of carrier combination information for transmitting the reference signal for positioning supported by the terminal, wherein the carrier combination information comprises a carrier combination identifier or a carrier identifier of each carrier comprised in a carrier combination.

10. A method for transmitting a reference signal for positioning, performed by a radio access network (RAN) device, comprising:

sending information to a terminal, wherein the information indicates a priority for transmission of the reference signal for positioning relative to other channel/signal on each of at least two carriers in a first carrier group.

11. The method according to claim 10, wherein the priority for transmission of the reference signal for positioning on each of the at least two carriers is identical.

12. The method according to claim 10, wherein priorities for transmission of the reference signal for positioning on different carriers of the at least two carriers are different.

13. The method according to claim 12, wherein the first carrier group comprises a second carrier group, and

a priority of transmitting the reference signal for positioning is higher than a priority of transmitting the other channel/signal on each carrier in the second carrier group.

14. The method according to claim 10, wherein the other channel/signal comprises at least one of:

a synchronization signal and physical broadcast channel (PBCH) block (SSB) of a serving cell, a SSB of a neighbor cell, a physical downlink control channel (PDCCH) for an ultra-reliable and low latency communications (URLLC) service, a physical downlink shared channel (PDSCH) for the URLLC service, a PDCCH for other service than the URLLC service, a PDSCH for the other service than the URLLC service, a demodulation reference signal (DMRS), a channel state information reference signal (CSI-RS), a physical uplink control channel (PUCCH), a physical uplink shared channel (PUSCH), or a physical random access channel (PRACH).

15. The method according to claim 10, further comprising:

receiving at least one piece of carrier combination information from the terminal, wherein the carrier combination information indicates a carrier group for transmitting the reference signal for positioning supported by the terminal, and comprises a carrier combination identifier or a carrier identifier of each carrier comprised in a carrier combination.

16. A method for transmitting a reference signal for positioning, performed by a core

network (CN) device, comprising:

sending information to a terminal, wherein the information indicates a first carrier group for transmitting the reference signal for positioning, and the first carrier group comprises at least two carriers.

17. The method according to claim 16, further comprising:

acquiring a measurement result when transmitting the reference signal for positioning based on a second carrier group, and acquiring a carrier group identifier of the second carrier group and a carrier identifier of each carrier comprised in the second carrier group.

18. The method according to claim 17, wherein a priority of transmitting the reference signal for positioning is higher than a priority of transmitting the other channel/signal on each carrier in the second carrier group.

19. The method according to claim 16, further comprising:

receiving at least one piece of carrier combination information from the terminal, wherein the carrier combination information indicates a carrier group for transmitting the reference signal for positioning supported by the terminal, and comprises a carrier combination identifier or a carrier identifier of each carrier comprised in the carrier combination.

20. The method according to claim 16, wherein the reference signal for positioning comprises at least one of a downlink reference signal for positioning or an uplink reference signal for positioning.