CLAIMS

1. A positioning method, performed by a first device, wherein the method comprises:

determining first information, wherein

the first information comprises line-of-sight LOS path indication information;

the first information is used to determine positioning information of the first device;

the LOS path indication information is used to indicate whether a target beam is an LOS path; and

the LOS path indication information comprises LOS quality information, and the LOS quality information is used to represent reliability or quality of an LOS path determining result of the target beam.

2. The method according to claim 1, the first information further comprises at least one of the following: direction information of the target beam, energy change information of the target beam, and beam identification information;

wherein the beam identification information is identification information of the target beam;

wherein the identification information of the target beam is identification information of a target signal, and the target signal is transmitted through the target beam.

3. The method according to claim 1 or 2, wherein the first information further comprises measurement information of the target signal; and

the measurement information of the target signal comprises at least one of the following: time information of a round-trip time RTT, time information of a time of arrival TOA, time information of a time difference of arrival TDOA, information about a reference signal time difference RSTD, and information about reference signal received power RSRP.

4. The method according to claim 2, wherein if the first information comprises the energy change information, the beam identification information is beam identification information corresponding to the energy change information.

5. The method according to any one of claims 1 to 4, wherein the target beam is a measurement beam corresponding to a measurement result, reported by the first device, of the target signal; and

the measurement result is a measurement result obtained by the first device after measuring the target signal through the target beam, and the target signal is a downlink signal and comprises at least one of the following: a downlink positioning reference signal DL-PRS, a synchronization signal/PBCH block SSB, a channel state information reference signal CSI-RS, and a tracking reference signal TRS.

6. The method according to any one of claims 1 to 5, wherein the first information is transmitted in location information or signal measurement information.

7. The method according to claim 2, wherein the direction information is used to indicate at least one of the following information of the target beam of the first device: an azimuth angle, an elevation angle, and a beam width.

8. The method according to claim 2, wherein the energy change information of the target beam comprises energy information of N beams, the N beams comprise the target beam, and N is a positive integer.

9. The method according to claim 8, wherein the energy change information of the target beam comprises energy information of each of the N beams, or energy difference information between the N beams and the target beam.

10. The method according to claim 8 or 9, wherein the N beams comprise the target beam and N–1 spatially adjacent beams of the target beam.

11. The method according to claim 2, wherein the energy change information of the target beam comprises energy information of M transmit beams received through a fixed target beam of the first device.

12. The method according to claim 1, wherein the first information further comprises energy information of N beams, the N beams comprise the target beam N–1 spatially adjacent beams of the target beam, and N is a positive integer greater than 1.

13. The method according to any one of claims 1 to 12, wherein in the case that the first device is a terminal device, before the determining first information, the method further comprises:

obtaining measurement configuration information from a network-side device; and

determining the first information based on the measurement configuration information;

and/or

before the determining first information, the method further comprises:

obtaining report configuration information from a network-side device; and

the determining first information comprises:

determining the first information based on the report configuration information.

14. The method according to claim 1, wherein before the determining first information, the method further comprises:

obtaining second information, wherein the second information at least comprises transmission angle information of a target signal.

15. The method according to claim 1, wherein after the determining first information, the method further comprises:

sending the first information to a second device.

16. A positioning method, performed by a second device, wherein the method comprises:

obtaining first information from a first device; and

determining positioning information of the first device based on the first information, wherein

the first information comprises line-of-sight LOS path indication information;

the LOS path indication information is used to indicate whether a target beam is an LOS path; and

the LOS path indication information comprises LOS quality information, and the LOS quality information is used to represent reliability or quality of an LOS path determining result of the target beam.

17. A communication device, wherein the communication device is a first device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, and the computer program, when being executed

by the processor, causes the processor to implement the steps of the positioning method according to any one of claims 1 to 15.

18. A communication device, wherein the communication device is a second device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, and the computer program, when being executed by the processor, causes the processor to implement steps of:

obtaining first information from a first device; and

determining positioning information of the first device based on the first information, wherein

the first information comprises line-of-sight (LOS) path indication information;

the LOS path indication information is used to indicate whether a target beam is an LOS path; and

the LOS path indication information comprises LOS quality information, and the LOS quality information is used to represent reliability or quality of an LOS path determining result of the target beam.

19. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and the computer program, when being executed by a processor, causes the processor to implement the steps of the positioning method according to any one of claims 1 to 15.

20. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and the computer program, when being executed by a processor, causes the processor to implement the steps of the positioning method according to claim 16.