

CLAIMS

1. A beam measurement method, comprising:

5 receiving, by a terminal, measurement configuration information sent by a network device, the measurement configuration information being configured to indicate a parameter used during measurement of at least one beam;

performing, by the terminal, measurement of the at least one beam to obtain a measurement result according to the measurement configuration information; and

10 sending, by the terminal, the measurement result to the network device.

2. The method of claim 1, further comprising:

receiving, by the terminal, a determination result from the network device, the determination result comprising at least one of a target beam, a target beam group or a
15 target cell determined by the network device according to the measurement result, the target beam being a beam on which the terminal is capable of camping, the target beam group being a beam group on which the terminal is capable of camping and the target cell being a cell on which the terminal is capable of camping.

20 3. The method of claim 1 or 2, wherein the at least one beam belongs to a same cell; or, the at least one beam comprises multiple beams and the multiple beams belong to multiple cells.

4. The method of any one of claims 1-3, wherein the measurement configuration
25 information comprises at least one of an indication of the beam, an indication of a beam group to which the beam belongs, an indication of a cell corresponding to the beam, an indication of an Access Point (AP) corresponding to the beam, an indication of a base station corresponding to the beam, a measurement frequency, a measurement cycle, a measurement duration, a measurement mode, a beam resource
30 related parameter or information of a reference signal corresponding to the beam.

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

reporting, by the terminal to the network device, a measurement mode recommended after beam measurement; and

receiving, by the terminal, an updating configuration sent by the network device, the updating configuration being configured to instruct the terminal to use an updated measurement mode for beam measurement.

5 6. The method of claim 4, wherein the measurement configuration information comprises information of the measurement mode, and the information of the measurement mode comprises at least one of information of the measurement duration or information of the measurement cycle, wherein

10 the at least one beam belongs to one or multiple cells, the measurement duration is a duration corresponding to measurement of all beams in the one or multiple cells, and the measurement duration and the measurement cycle are determined by the network device according to at least one of a sweeping cycle of all beams in the one or multiple cells or a sweeping duration of all beams in the one or multiple cells; or

15 the at least one beam belongs to one or multiple cells, the measurement duration is a duration corresponding to measurement of one beam in the one or multiple cells, and the measurement duration and the measurement cycle are determined by the network device according to at least one of the sweeping cycle of each beam in the one or multiple cells or the sweeping duration of each beam in the one or multiple cells; or

20 the at least one beam comprises multiple beams, the multiple beams belong to multiple cells, the measurement mode comprises at least one of multiple measurement durations or multiple measurement cycles, and the measurement durations and the measurement cycles are determined by the network device according to at least one of
25 a sweeping cycle of one or multiple beams of each cell in the multiple cells or a sweeping duration of one or multiple beams of each cell in the multiple cells.

7. The method of any one of claims 1-6, wherein the measurement result comprises at least one of signal strength or signal quality for each of the at least one beam; or

30 the measurement result comprises at least one of signal strength or signal quality for the beam group to which the beam belongs; or

 the measurement result comprises at least one of signal strength or signal quality for the cell containing the beam; or

the measurement result comprises an ordering of at least one of signal strength of the at least one beam or signal quality of the at least one beam.

8. The method of any one of claims 1-7, wherein the measurement result comprises an indication of a beam group or an indication of a cell with at least one of optimal signal strength or optimal signal quality for signal transmission in one beam or in beam groups to which the beams belong or in cells corresponding to the beams; or

the measurement result comprises at least one of average signal strength or average signal quality for signal transmission in the beam groups to which the beams belong or in the cells corresponding to the beams.

9. A terminal, comprising:

a receiving module, configured to receive measurement configuration information sent by a network device, the measurement configuration information being configured to indicate a parameter used during measurement of at least one beam;

a processing module, configured to perform measurement of the at least one beam to obtain a measurement result according to the measurement configuration information received by the receiving module; and

a sending module, configured to send the measurement result obtained by the processing module to the network device.

10. The terminal of claim 9, wherein the receiving module is further configured to:

receive a determination result from the network device, the determination result comprising at least one of a target beam, a target beam group or a target cell determined by the network device according to the measurement result, the target beam being a beam on which the terminal is capable of camping, the target beam group being a beam group on which the terminal is capable of camping and the target cell being a cell on which the terminal is capable of camping.

11. The terminal of claim 9 or 10, wherein the at least one beam belongs to a same cell; or, the at least one beam comprises multiple beams and the multiple beams belong to multiple cells.

12. The terminal of any one of claims 9-11, wherein the measurement configuration information comprises at least one of an indication of the beam, an indication of a beam group to which the beam belongs, an indication of a cell corresponding to the beam, an indication of an Access Point (AP) corresponding to the beam, an indication of a base station corresponding to the beam, a measurement frequency, a measurement cycle, a measurement duration, a measurement mode, a beam resource related parameter or information of a reference signal corresponding to the beam.

13. The terminal of any one of claims 9-12, wherein the sending module is further configured to:

report a measurement mode recommended after beam measurement to the network device; and

the receiving module is further configured to:

receive an updating configuration sent by the network device, the updating configuration being configured to instruct the terminal to use an updated measurement mode for beam measurement.

14. The terminal of claim 13, wherein the measurement configuration information comprises information of the measurement mode, and the information of the measurement mode comprises at least one of information of the measurement duration or information of the measurement cycle, wherein

the at least one beam belongs to one or multiple cells, the measurement duration is a duration corresponding to measurement of all beams in the one or multiple cells, and the measurement duration and the measurement cycle are determined by the network device according to at least one of a sweeping cycle of all beams in the one or multiple cells or a sweeping duration of all beams in the one or multiple cells; or

the at least one beam belongs to one or multiple cells, the measurement duration is a duration corresponding to measurement of one beam in the one or multiple cells, and the measurement duration and the measurement cycle are determined by the network device according to at least one of the sweeping cycle of each beam in the one or multiple cells or the sweeping duration of each beam in the

one or multiple cells; or

the at least one beam comprises multiple beams, the multiple beams belong to multiple cells, the measurement mode comprises at least one of multiple measurement durations or multiple measurement cycles, and the measurement durations and the measurement cycles are determined by the network device according to at least one of a sweeping cycle of one or multiple beams of each cell in the multiple cells or a sweeping duration of one or multiple beams of each cell in the multiple cells.

15. The terminal of any one of claims 9-14, wherein the measurement result comprises least one of signal strength or signal quality for each of the at least one beam; or

the measurement result comprises at least one of signal strength or signal quality for the beam group to which the beam belongs; or

the measurement result comprises at least one of signal strength or signal quality for the cell containing the beam; or

the measurement result comprises an ordering of at least one of signal strength or signal quality of the at least one beam.

16. The terminal of any one of claims 9-15, wherein the measurement result comprises an indication of a beam group or an indication of a cell with at least one of optimal signal strength or optimal signal quality for signal transmission in one beam or in beam groups to which the beams belong or in cells corresponding to the beams; or

the measurement result comprises at least one of average signal strength or average signal quality for signal transmission in the beam groups to which the beams belong or in the cells corresponding to the beams.