

WHAT IS CLAIMED IS:

1. A measurement method, performed by a terminal, comprising:

obtaining a measurement value of a target measurement, wherein the target measurement comprises a radio link monitor (RLM) measurement and/or a radio resource management (RRM) measurement;

determining a target event triggered by the terminal based on the measurement value and reference information corresponding to the target measurement, wherein the target event comprises a relaxation entering state or a relaxation exiting state; and

sending the relaxation exiting state to a network device, in response to that the target event is the relaxation exiting state and a timer used for timing based on a time when the terminal most recently sent the relaxation exiting state does not operate; or

sending the relaxation entering state to a network device, in response to that the target event is the relaxation entering state and a timer used for timing based on a time when the terminal most recently sent the relaxation entering state does not operate.

2. The method of claim 1, wherein obtaining the measurement value of the target measurement, comprises:

obtaining the measurement value by measuring a downlink reference signal of a serving cell of the terminal.

3. The method of any one of claims 1-2, wherein the reference information comprises: a target time period and a first difference threshold, the measurement value comprises at least one first reference signal receiving power (RSRP) obtained by measuring a downlink reference signal at least once within the target time period, or the measurement value comprises at least one first RSRP obtained by measuring at least one downlink reference signal within the target time period;

determining the target event triggered by the terminal based on the measurement value and the reference information corresponding to the target measurement, comprises:

determining a first difference between the at least one first RSRP and a first reference value corresponding to the first RSRP, wherein the first reference value corresponding to the first RSRP is obtained by the terminal before measuring the first RSRP; and

determining that the target event is the relaxation entering state, in response to each first

difference corresponding to the at least one first RSRP being less than the first difference threshold.

4. The method of claim 3, wherein the measurement value further comprises a plurality of second RSRPs obtained by measuring a downlink reference signal for multiple times within a preset duration after the target time period, or comprises a plurality of second RSRPs obtained by measuring a plurality of downlink reference signals within the preset duration;

determining that the target event is the relaxation entering state, in response to each first difference corresponding to the at least one first RSRP being less than the first difference threshold, comprises:

determining second differences between the plurality of second RSRPs and second corresponding reference values, in response to each of first differences corresponding respectively to a plurality of first RSRPs being less than the first difference threshold; and

determining that the target event is the relaxation entering state, in response to each of the second differences corresponding respectively to the plurality of second RSRPs being less than the first difference threshold.

5. The method of any one of claims 1-2, wherein the reference information comprises a target time period and a second difference threshold, the measurement value comprises one or more first RSRPs obtained by measuring a downlink reference signal at least once within the target time period, or the measurement value comprises one or more first RSRPs obtained by measuring at least one downlink reference signal within the target time period;

determining the target event triggered by the terminal based on the measurement value and the reference information corresponding to the target measurement, comprises:

determining one or more first differences between the one or more first RSRPs and one or more first reference values corresponding to the one or more first RSRPs, wherein the first reference value corresponding to the first RSRP is obtained by the terminal before measuring the first RSRP; and

determining that the target event is the relaxation exiting state, in response to a first difference corresponding to at least one first RSRP of the one or more first RSRPs being greater than or equal to the second difference threshold.

6. The method of claim 5, wherein the measurement value further comprises a plurality

of second RSRPs obtained by measuring a downlink reference signal for multiple times within a preset duration after the target time period, or comprises a plurality of second RSRPs obtained by measuring a plurality of downlink reference signals within the preset duration;

determining that the target event is the relaxation exiting state, in response to the first difference corresponding to the at least one first RSRP of the one or more first RSRPs being greater than or equal to the second difference threshold, comprises:

determining second differences between the plurality of second RSRPs and second corresponding reference values, in response to the first difference corresponding to the at least one first RSRP being greater than or equal to the second difference threshold; and

determining that the target event is the relaxation exiting state, in response to a second difference corresponding to at least one second RSRP being greater than or equal to the second difference threshold.

7. The method of claim 3 or 5, wherein the first reference value is updated in a manner of:

updating the first reference value based on the first RSRP, in response to the terminal performing cell switching;

updating the first reference value based on the first RSRP, in response to a difference obtained by subtracting the first reference value from the first RSRP being greater than a third difference threshold; or,

updating the first reference value based on the first RSRP, in response to the first difference of the first RSRP not being less than the first difference threshold within the target time period, or, updating the first reference value based on the first RSRP, in response to the first difference of the first RSRP being less than the second difference threshold within the target time period.

8. The method of claim 4 or 6, wherein the second reference value is updated in a manner of:

updating the second reference value based on the second RSRP, in response to the terminal performing cell switching;

updating the second reference value based on the second RSRP, in response to a difference obtained by subtracting the second reference value from the second RSRP being

greater than a third difference threshold; or

updating the second reference value based on the second RSRP, in response to the second difference of the second RSRP not being less than the first difference threshold within the preset duration, or, updating the second reference value based on the second RSRP, in response to the second difference of the second RSRP being less than the second difference threshold within the preset duration.

9. The method of any one of claims 1-8, wherein the measurement value comprises a plurality of first signal to interference plus noise ratios (SINRs) obtained by measuring a plurality of downlink reference signals, the reference information comprises threshold indication information;

determining the target event triggered by the terminal based on the measurement value and the reference information corresponding to the target measurement, comprises one of:

determining a first quality threshold based on the threshold indication information; and determining that the target event is the relaxation entering state, in response to the plurality of first SINRs being greater than the first quality threshold or in response to at least one of the plurality of first SINRs being greater than the first quality threshold; or

determining a second quality threshold based on the threshold indication information; and determining that the target event is the relaxation exiting state, in response to at least one of the plurality of first SINRs being less than or equal to the second quality threshold or in response to the plurality of first SINRs being less than or equal to the second quality threshold.

10. The method of any one of claims 1-8, wherein the measurement value comprises a plurality of second SINRs obtained by measuring each of a plurality of downlink reference signals for multiple times within a preset duration, the reference information comprises: threshold indication information;

determining the target event triggered by the terminal based on the measurement value and the reference information corresponding to the target measurement, comprises one of:

determining a first quality threshold based on the threshold indication information; and determining that the target event is the relaxation entering state, in response to the plurality of second SINRs corresponding to each of the plurality of downlink reference signals being

greater than the first quality threshold or in response to the plurality of second SINRs corresponding to at least one of the plurality of downlink reference signals being greater than the first quality threshold; or

determining a second quality threshold based on the threshold indication information; and determining that the target event is the relaxation exiting state, in response to the plurality of second SINRs corresponding to at least one of the plurality of downlink reference signals being less than or equal to the second quality threshold or in response to the plurality of the second SINRs corresponding to each of the plurality of downlink reference signals being less than or equal to the second quality threshold.

11. The method of any one of claims 1-2, 5, and 9, further comprising:

reading a first value of a timer used for timing based on a time when the terminal most recently determined that the relaxation exiting state was triggered, in response to the target event being the relaxation exiting state; and

sending the relaxation exiting state and/or the measurement value to the network device, in response to the first value being greater than a first counting threshold and the timer used for timing based on the time when the terminal most recently sent the relaxation exiting state not operating.

12. The method of any one of claims 1-3, and 9, further comprising:

reading a second value of a timer used for timing based on a time when the terminal most recently determined that the relaxation entering state was triggered, in response to the target event being the relaxation entering state; and

sending the relaxation entering state and/or the measurement value to the network device, in response to the second value being greater than a second counting threshold and the timer used for timing based on the time when the terminal most recently sent the relaxation entering state not operating.

13. The method of any one of claims 1-2, 6, and 10, further comprising:

sending the measurement value to the network device, in response to the target event being the relaxation exiting event and the timer used for timing based on the time when the terminal most recently sent the relaxation exiting event not operating or in response to the target event being the relaxation entering event and the timer used for timing based on a time

when the terminal most recently sent the relaxation entering event not operating.

14. The method of any one of claims 1-10, further comprising one of:

sending the relaxation exiting state and/or the measurement value to the network device, in response to the target event being the relaxation exiting state;

sending the relaxation entering state and/or the measurement value to the network device, in response to the target event being the relaxation entering state;

sending the measurement value and/or the target event of a primary serving cell corresponding to the terminal to the network device, in response to a reporting type of the target event being per user equipment; or

sending the measurement value and/or the target event of a primary serving cell in a cell group corresponding to the terminal to the network device, or sending the measurement value and/or the target event of a primary secondary serving cell in a cell group corresponding to the terminal to the network device, in response to a reporting type of the target event being per cell group.

15. The method of any one of claims 1-14, further comprising:

determining a first measurement gap at which the terminal performs the target measurement periodically in a relaxed state, in response to the target event being the relaxation entering state; and

sending gap indication information corresponding to the first measurement gap to the network device, wherein the gap indication information comprises a ratio of the first measurement gap to a second measurement gap configured by the network device.

16. The method of claim 15, further comprising:

receiving a relaxation instruction sent by the network device;

controlling the terminal to enter the relaxed state, in response to the relaxation instruction.

17. The method of claim 16, wherein the relaxation instruction comprises a target ratio, the method further comprises:

determining a target measurement gap based on the target ratio and the second measurement gap configured by the network device; and

performing the target measurement periodically in the relaxed state based on the target

measurement gap.

18. A measurement method, performed by a network device, comprising:

receiving a target event and a measurement value sent by a terminal, wherein the measurement value is a measurement value of a target measurement, the target measurement comprises a radio link monitor (RLM) measurement and/or a radio resource management (RRM) measurement, the target event is determined based on the measurement value and reference information corresponding to the target measurement, and the target event comprises a relaxation entering state or a relaxation exiting state;

wherein receiving the target event sent by the terminal comprises:

receiving the relaxation exiting state from the terminal, wherein the relaxation exiting state is sent by the terminal in response to that the target event is the relaxation exiting state and a timer used for timing based on a time when the terminal most recently sent the relaxation exiting state does not operate; or

receiving the relaxation entering state from the terminal, wherein the relaxation entering state is sent by the terminal in response to that the target event is the relaxation entering state and a timer used for timing based on a time when the terminal most recently sent the relaxation entering state does not operate.

19. The method of claim 18, further comprising:

sending a relaxation instruction to the terminal, in response to the target event being the relaxation entering state, wherein the relaxation instruction is used to control the terminal to enter a relaxed state.

20. A measurement device, comprising: a processor and a memory having computer programs stored thereon, wherein when the computer programs are executed by the processor, the method of any one of claims 1-17 or the method of any one of claims 18-19 is implemented.