CLAIMS

What is claimed is:

1. A measurement method applied to a terminal device, wherein the method comprises:

receiving a measurement adjustment related parameter configured by a network device; and

adjusting a radio resource management RRM measurement mode based on the measurement adjustment related parameter;

wherein the measurement adjustment related parameter comprises a measurement adjustment threshold; and

the adjusting a radio resource management RRM measurement mode based on the measurement adjustment related parameter comprises:

adjusting the RRM measurement mode based on the measurement adjustment threshold and an RRM measurement result, wherein the measurement adjustment threshold comprises at least one of a first threshold and a second threshold;

wherein the RRM measurement mode comprises at least one of a normal RRM measurement mode, a relaxed RRM measurement mode, and an enhanced RRM measurement mode;

wherein the measurement adjustment related parameter further comprises a first measurement adjustment duration parameter; and

the adjusting the RRM measurement mode based on the measurement adjustment threshold and an RRM measurement result comprises:

adjusting the RRM measurement mode based on the measurement adjustment threshold, the RRM measurement result, and the first measurement adjustment duration parameter, wherein the first measurement adjustment duration parameter comprises a first preset time or a second preset time;

wherein the adjusting the RRM measurement mode based on the measurement adjustment threshold, the RRM measurement result, and the first measurement adjustment duration parameter comprises:

if the RRM measurement result is higher than or equal to the first threshold, and the RRM measurement result is higher than or equal to the second threshold within the entire first preset time, using a first RRM measurement mode to perform RRM measurement, wherein the first RRM measurement mode comprises a relaxed RRM measurement mode or a normal RRM measurement mode; or

if the RRM measurement result is lower than or equal to the second threshold, and the RRM measurement result is lower than or equal to the first threshold within the entire second preset time, using a second RRM measurement mode to perform RRM measurement, wherein the second RRM measurement mode comprises a normal RRM measurement mode or an enhanced RRM measurement mode.

2. The method according to claim 1, wherein the adjusting the RRM measurement mode based on the measurement adjustment threshold and an RRM measurement result comprises:

if the RRM measurement result is higher than or equal to the first threshold, using a first RRM measurement mode to perform RRM measurement, wherein the first RRM measurement mode comprises a relaxed RRM measurement mode or a normal RRM measurement mode; or

if the RRM measurement result is lower than or equal to the second threshold, using a second RRM measurement mode to perform RRM measurement, wherein the second RRM measurement mode comprises a normal RRM measurement mode or an enhanced RRM measurement mode.

3. The method according to claim 1, wherein the adjusting the RRM measurement mode based on the measurement adjustment threshold, the RRM measurement result, and the first measurement adjustment duration parameter comprises:

if the RRM measurement result is higher than or equal to the first threshold within the entire first preset time, using a first RRM measurement mode to perform RRM measurement, wherein the first RRM measurement mode comprises a relaxed RRM measurement mode or a normal RRM measurement mode; or

if the RRM measurement result is lower than or equal to the second threshold within the entire second preset time, using a second RRM measurement mode to perform RRM measurement, wherein the second RRM measurement mode comprises a normal RRM measurement mode or an enhanced RRM measurement mode.

4. The method according to any one of claims 1 to 3, wherein the RRM measurement result comprises at least one of the following:

a first result obtained by performing RRM measurement on a current cell of the terminal device, wherein the first result comprises at least one of a cell measurement result and a beam measurement result; and

a second result obtained by performing RRM measurement on a neighboring cell of the terminal device, wherein the second result comprises at least one of a cell measurement result and a beam measurement result.

5. The method according to claim 1, wherein the measurement adjustment related parameter comprises a second measurement adjustment duration parameter, and the second measurement adjustment duration parameter comprises a third preset time; and

the adjusting a radio resource management RRM measurement mode based on the measurement adjustment related parameter comprises:

after starting to use a third RRM measurement mode to perform RRM measurement for the third preset time, switching to use a fourth RRM measurement mode to perform RRM measurement, wherein the third RRM measurement mode comprises a relaxed RRM measurement mode or an enhanced RRM measurement mode, and the fourth RRM measurement mode comprises a normal RRM measurement mode.

6. The method according to claim 5, wherein the third preset time comprises at least one of the following:

a set time of an RRM measurement timer;

a time corresponding to a first preset quantity of RRM measurement periods; and

a time required to perform RRM measurement on a second preset quantity of RRM measurement samples.

7. The method according to claim 1, wherein the measurement adjustment related parameter comprises preset cell coverage or preset beam coverage; and

the adjusting a radio resource management RRM measurement mode based on the measurement adjustment related parameter comprises:

if the terminal device moves into the preset cell coverage or the preset beam coverage, using a fifth RRM measurement mode to perform RRM measurement, wherein the fifth RRM measurement mode comprises a relaxed RRM measurement mode or an enhanced RRM measurement mode; or

if the terminal device moves out of the preset cell coverage or the preset beam coverage, using a sixth RRM measurement mode to perform RRM measurement, wherein the sixth RRM measurement mode comprises a normal RRM measurement mode.

8. The method according to claim 1, 2, 3, 5 or 7, wherein the relaxed RRM measurement mode comprises a relaxed RRM measurement mode in which the terminal device is in a radio resource control RRC connected state, an RRC idle state, or an RRC inactive state.

9. The method according to claim 8, wherein

a measurement period in the relaxed RRM measurement mode is longer than a measurement period in the normal RRM measurement mode; or

a quantity of samples in a measurement period in the relaxed RRM measurement mode is less than a quantity of samples in a measurement period in the normal RRM measurement mode; or

within a fourth preset time, a measurement frequency in the relaxed RRM measurement mode is lower than a measurement frequency in the normal RRM measurement mode; or

a quantity of neighboring cells on which RRM measurement is performed in the relaxed RRM measurement mode is less than a quantity of neighboring cells on which RRM measurement is performed in the normal RRM measurement mode; or

a quantity of target objects on which inter-frequency RRM measurement or inter-system measurement is performed in the relaxed RRM measurement mode is less than a quantity of target objects on which inter-frequency RRM measurement or inter-system measurement is performed in the normal RRM measurement mode, wherein the target object comprises at least one of a carrier, a frequency, a band, and a bandwidth part; or

an additional reference signal is used to perform RRM measurement.

10. The method according to claim 1, 2, 3, 5 or 7, wherein the enhanced RRM measurement mode comprises an enhanced RRM measurement mode in which the terminal device is in a radio resource control RRC connected state, an RRC idle state, or an RRC inactive state.

11. The method according to claim 10, wherein

a measurement period in the enhanced RRM measurement mode is shorter than a measurement period in the normal RRM measurement mode; or

a quantity of samples in a measurement period in the enhanced RRM measurement mode is greater than a quantity of samples in a measurement period in the normal RRM measurement mode; or

within a fifth preset time, a measurement frequency in the enhanced RRM measurement mode is higher than a measurement frequency in the normal RRM measurement mode; or

a quantity of neighboring cells on which RRM measurement is performed in the enhanced RRM measurement mode is greater than a quantity of neighboring cells on which RRM measurement is performed in the normal RRM measurement mode; or

a quantity of target objects on which inter-frequency RRM measurement or inter-system measurement is performed in the enhanced RRM measurement mode is greater than a quantity of target objects on which inter-frequency RRM measurement or inter-system measurement is performed in the normal RRM measurement mode, wherein the target object comprises at least one of a carrier, a frequency, a band, and a bandwidth part; or

an additional reference signal is used to perform RRM measurement.

12. The method according to claim 1, wherein before the receiving a measurement adjustment related parameter configured by a network device, the method further comprises:

sending a measurement adjustment request to the network device, wherein the measurement adjustment request comprises a request for obtaining the measurement adjustment related parameter.

13. The method according to claim 1, wherein the receiving a measurement adjustment related parameter configured by a network device comprises:

in a case in which the terminal device is in an RRC connected state, receiving the measurement adjustment related parameter by using an RRC dedicated message or a broadcast message; or

in a case in which the terminal device is in an RRC idle state or an RRC inactive state, receiving the measurement adjustment related parameter by using an RRC connection release message, an RRC connection suspension message, or a broadcast message.

14. The method according to claim 1, wherein the measurement adjustment related parameter comprises one of the following:

a parameter separately configured by the network device for the terminal device;

a parameter configured by the network device for a current cell of the terminal device;

a parameter configured by the network device within a range of each frequency, carrier, band, or bandwidth part;

a parameter configured by the network device within a range of each frequency, carrier, band, or bandwidth part for the terminal device; and

a parameter configured by the network device for each beam corresponding to the terminal device.

15. The method according to claim 1, wherein the adjusting a radio resource management RRM measurement mode based on the measurement adjustment related parameter comprises:

adjusting an RRM measurement mode of at least one of a current cell and a neighboring cell of the terminal device based on the measurement adjustment related parameter.

16. A measurement method applied to a network device, wherein the method comprises:

sending a measurement adjustment related parameter to a terminal device, wherein the measurement adjustment related parameter is used to adjust a radio resource management RRM measurement mode of the terminal device;

wherein the measurement adjustment related parameter comprises a measurement adjustment threshold; and

wherein the measurement adjustment threshold comprises at least one of a first threshold and a second threshold;

wherein the RRM measurement mode comprises at least one of a normal RRM measurement mode, a relaxed RRM measurement mode, and an enhanced RRM measurement mode;

wherein the measurement adjustment related parameter further comprises a first measurement adjustment duration parameter; and

wherein the first measurement adjustment duration parameter comprises a first preset time or a second preset time;

wherein the measurement adjustment related parameter instructs the terminal device to perform the following steps:

if an RRM measurement result is higher than or equal to the first threshold, and the RRM measurement result is higher than or equal to the second threshold

within the entire first preset time, using a first RRM measurement mode to perform RRM measurement, wherein the first RRM measurement mode comprises a relaxed RRM measurement mode or a normal RRM measurement mode; or

if an RRM measurement result is lower than or equal to the second threshold, and the RRM measurement result is lower than or equal to the first threshold within the entire second preset time, using a second RRM measurement mode to perform RRM measurement, wherein the second RRM measurement mode comprises a normal RRM measurement mode or an enhanced RRM measurement mode.

17. A terminal device, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the method according to any one of claims 1 to 15 are implemented.