CLAIMS

1. An application layer measurement method, comprising:

receiving, by a terminal device, a first message from a first access network device, wherein the first message carries first indication information, and the first indication information indicates the terminal device to release a secondary cell group; and

when receiving second indication information, releasing, by the terminal device, first application layer measurement, wherein the second indication information indicates the terminal device to release the first application layer measurement; or

when the terminal device receives no second indication information, the first message does not indicate the terminal device to change an access network device to which a first application layer measurement result is reported, and the access network device to which the first application layer measurement result is reported is a second access network device before the first message is received, releasing a first application layer measurement or adjusting the access network device to which the first application layer measurement result is reported from the second access network device to the first access network device, wherein the second indication information indicates the terminal device to release the first application layer measurement; and

the first application layer measurement corresponds to first application layer measurement configuration information of the second access network device, and the first application layer measurement result is a measurement result of the first application layer measurement.

2. The method according to claim 1, wherein both the first indication information and the second indication information are carried in the first message.

3. The method according to claim 1 or 2, wherein the method further comprises:

when determining that the first application layer measurement result is not correctly received by the second access network device, reporting, by the terminal device, the first application layer measurement result to the first access network device.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

receiving, by the terminal device, a second message, wherein the second message is used to configure conditional handover, CHO, or conditional primary secondary cell addition, CPA, or conditional primary secondary cell change, CPC, and the second message comprises a trigger condition of each candidate cell in at least one candidate cell;

determining, by the terminal device, a target cell from the at least one candidate cell based on the trigger condition of each candidate cell in the at least one candidate cell, wherein a trigger condition of the target cell is met; and

sending, by the terminal device, measurement status information of the first application layer measurement to an access network device corresponding to the target cell, wherein the measurement status information of the first application layer measurement comprises start indication information, and the start indication information indicates whether the first application layer measurement is started.

5. The method according to claim 4, wherein the measurement status information of the first application layer measurement further comprises one or more of the following information: an application layer measurement identifier of the first application layer measurement, reference information of the first application layer measurement, and end indication information of the first application layer measurement, and the end indication information indicates whether the first application layer measurement ends.

6. An application layer measurement method, comprising:

when determining to retain a first application layer measurement configuration, and that an access network device to which a first application layer measurement result is currently reported is a second access network device, sending, by a first access network device, a first message to a terminal device, wherein the first message indicates the terminal device to change an access network device to which the first application layer measurement result is reported; or

when determining not to retain a first application layer measurement configuration, sending, by a first access network device, a first message to a terminal device, wherein the first message indicates the terminal device to release a first application layer measurement, wherein

the first application layer measurement configuration corresponds to the second access network device, and the first application layer measurement result is a measurement result of the first application layer measurement.

7. The method according to claim 6, wherein the method further comprises:

receiving, by the first access network device, first application layer measurement information from the second access network device, wherein the first application layer measurement information comprises one or more of the following information: an application layer measurement identifier of the first application layer measurement, reference information of the first application layer measurement, address information of a measurement collection entity corresponding to the first application layer measurement, effective area information corresponding to the first application layer measurement, and the access network device to which the first application layer measurement result is currently reported; and the first application layer measurement information is used to determine whether to retain the first application layer measurement configuration.

8. The method according to claim 6, wherein after determining to retain the first application

layer measurement configuration, the method further comprises:

sending, by the first access network device, a third message to a target access network device, wherein the third message is used to request the terminal device to send the first application layer measurement result to the target access network device.

9. The method according to any one of claims 6 to 8, wherein the method further comprises:

when conditional primary secondary cell change, CPC, has been configured for the terminal device and a trigger condition of a target cell is met, sending, by the first access network device, measurement status information of the first application layer measurement to an access network device corresponding to the target cell, wherein the measurement status information of the first application layer measurement comprises start indication information, and the start indication information indicates whether the first application layer measurement is started.

10. The method according to claim 9, wherein the measurement status information of the first application layer measurement further comprises one or more of the following information: the application layer measurement identifier of the first application layer measurement, the reference information of the first application layer measurement, and end indication information of the first application layer measurement, and the end indication information indicates whether the first application layer measurement ends.

11. A first communication apparatus, comprising units configured to perform the method according to any one of claims 1 to 5.

12. A second communication apparatus, comprising units configured to perform the method according to any one of claims 6 to 10.

13. A chipset configured to perform the method according to any one of claims 1 to 5, or perform the method according to any one of claims 6 to 10.

14. A communication system, comprising the first communication apparatus according to claim 11 and the second communication apparatus according to claim 12.

15. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program or instructions; and when the computer program or the instructions are executed, a computer is caused to perform the method according to any one of claims 1 to 10.