

CLAIMS

What is claimed is:

1. A mobility management method performed by a source base station, comprising:
receiving a report message from a terminal device, wherein the terminal device is
5 a terminal device that receives data of a first multicast service, and the report message
comprises a measurement result; and

transmitting a handover command to the terminal device, wherein the handover
command is used to instruct the terminal device to switch to a target base station, and
the target base station is determined based on the measurement result;

10 wherein the method further comprises:

transmitting identifier information of a second multicast service to the target base
station, wherein

the transmitting a handover command to the terminal device comprises:

15 transmitting the handover command to the terminal device in a case that air
interface resource information from the target base station has been received, wherein
the handover command comprises the air interface resource information;

wherein the method further comprises:

receiving forwarding tunnel information from the target base station; and

20 forwarding, through a first forwarding tunnel, multicast service data received from
a first shared tunnel, wherein the first forwarding tunnel is a forwarding tunnel
established based on the forwarding tunnel information, and the first shared tunnel is a
tunnel between the source base station and a core network side device.

2. The method according to claim 1, further comprising:

25 receiving identifier information of a third multicast service from the target base
station; and

forwarding data of the third multicast service to the target base station.

3. The method according to claim 1, wherein the method further comprises at least
one of the following:

transmitting a quality of service profile of the second multicast service to the target base station;

transmitting core network element information of the second multicast service to the target base station;

5 transmitting a quality of service flow identifier (QFI) of the second multicast service to the target base station; or

prohibiting transmitting a user identity or device identity of the terminal device to the target base station.

4. The method according to claim 1, further comprising:

10 transmitting a forwarding tunnel release indication to the target base station, or receiving a forwarding tunnel release indication from the target base station, where the release indication is used to indicate stopping data forwarding or releasing resources of the forwarding tunnel.

5. The method according to claim 1, wherein the report message further comprises
15 identifier information of a fourth multicast service,

wherein the target base station is determined based on the measurement result and the identifier information of the fourth multicast service, or

wherein the handover command comprises identifier information of a fifth multicast service.

20 6. A mobility management method performed by a target base station and comprising:

receiving identifier information of a second multicast service from a source base station;

transmitting air interface resource information to the source base station; and

25 receiving an access complete message from a terminal device;

wherein after the receiving identifier information of a second multicast service from a source base station, the method further comprises:

transmitting forwarding tunnel information to the source base station, wherein a forwarding tunnel established based on the forwarding tunnel information is used to

30 forward multicast service data received by the source base station.

7. The method according to claim 6, wherein after the receiving identifier information of a second multicast service from a source base station, the method further comprises:

transmitting identifier information of a third multicast service to the source base
5 station.

8. The method according to claim 6, wherein after the receiving identifier information of a second multicast service from a source base station, the method further comprises:

transmitting identifier information of a sixth multicast service to a core network
10 side device.

9. The method according to claim 8, further comprising:

transmitting shared tunnel information to the core network side device, wherein the shared tunnel information is used for establishing a shared tunnel between the target base station and the core network side device.

15 10. The method according to claim 8, wherein the transmitting identifier information of a sixth multicast service to a core network side device comprises one of the following:

in a case that the access complete message has been received from the terminal device, transmitting the identifier information of the sixth multicast service to the core
20 network side device; and

in a case that the air interface resource information has been transmitted to the source base station, transmitting the identifier information of the sixth multicast service to the core network side device.

11. The method according to claim 6, wherein the method further comprises at
25 least one of the following:

receiving a quality of service profile of the second multicast service from the source base station;

receiving a quality of service flow identifier (QFI) of the second multicast service from the source base station; or

receiving core network element information of the second multicast service from the source base station and transmitting the core network element information to a core network side device.

12. The method according to claim 6, further comprising:

5 transmitting a forwarding tunnel release indication to the source base station, or receiving a forwarding tunnel release indication from the source base station, where the release indication is used to indicate stopping data forwarding or releasing resources of the forwarding tunnel.

13. The method according to claim 6, wherein after the receiving an access
10 complete message from a terminal device, the method further comprises:

instructing the terminal device to receive multicast service data in a point to multipoint (PTM) mode.

14. A source base station, comprising:

a processor; and

15 a memory storing a computer program that is capable of running on the processor, wherein the computer program, when executed by the processor, causes the source bases station to perform the steps of the mobility management method according to claim 1.

15. A target base station, comprising:

20 a processor; and

a memory storing a computer program that is capable of running on the processor, wherein the computer program, when executed by the processor, causes the target base station to perform the steps of the mobility management method according to claim 6.