CLAIMS

1. A multicast/broadcast service communication method, by a terminal device or a chip for the terminal device, comprising:

determining, a first multicast/broadcast service, wherein the first multicast/broadcast service is a multicast/broadcast service that the terminal device is to leave; and

sending, a first message, wherein the first message carries identification information of the first multicast/broadcast service and a first information element, the first information element comprises a leave indication, and the first information element indicates an operation type corresponding to the first multicast/broadcast service that the terminal device is to leave, and the first message is a protocol data unit (PDU) session modification request message.

2. The method according to claim 1, wherein the first message further carries a cause value of the first message, and

the cause value of the first message indicates that the terminal device is to leave the first multicast/broadcast service.

3. A multicast/broadcast service communication method, applied to a session management function network element or a chip for the session management function network element, comprising:

receiving, a third message, wherein the third message carries identification information of a first multicast/broadcast service, and the first multicast/broadcast service is a multicast/broadcast service that a terminal device is to leave; and

updating, a session management context of a protocol data unit (PDU) session of the terminal device based on the third message, comprising:

removing, the identification information of the first multicast/broadcast service from the session management context of the PDU session of the terminal device.

4. The multicast/broadcast service communication method according to claim 3, wherein the method further comprises:

removing, from the session management context of the PDU session of the terminal device, unicast quality of service (QoS) information corresponding to the first multicast/broadcast service.

5. The method according to claim 3 or 4, wherein the third message is a session management context update request.

6. The method according to any one of claims 3 to 5, wherein the method further comprises:

sending, a fifth message to a multicast/broadcast control plane function network element, wherein the fifth message carries the identification information of the first multicast/broadcast service.

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

an identifier of the user plane function network element corresponding to the first multicast/broadcast service.

8. The method according to any one of claims 3 to 7, wherein the method further comprises:

sending, a sixth message, wherein the sixth message carries the identification information of the first multicast/broadcast service.

9. The method according to claim 8, wherein the sixth message further carries a first information element and/or a cause value of the sixth message, and

the first information element indicates that the operation type corresponding to the first multicast/broadcast service of the terminal device is leave, and the cause value of the sixth message represents that the terminal device is to leave the first multicast/broadcast service.

10. The method according to claim 9, wherein the first information element is a leave indication.

11. A multicast/broadcast service communication method, applied to an access network device or a chip for the access network device, comprising:

receiving, an eighth message, wherein the eighth message carries identification information of a first multicast/broadcast service, and the first multicast/broadcast service is a multicast/broadcast service that a terminal device is to leave; and

releasing, an air interface resource that is allocated to the terminal device for the first multicast/broadcast service.

12. The method according to claim 11, wherein the method further comprises:

when the terminal device is the last terminal device that leaves the first multicast/broadcast service via the access network device, releasing, a service data transmission tunnel between the access network device and a core network device for the first multicast/broadcast service.

13. A communication apparatus, wherein the communication apparatus comprises a memory, and at least one processor, the at least one processor is coupled to the memory, and

the memory is configured to store computer-executable instructions; and when the communication apparatus runs, the at least one processor executes the computer-executable instructions, to enable the communication apparatus to perform the multicast/broadcast service communication method according to any one of claims 1 to 12.

14. A computer readable medium having a program recorded thereon; wherein the program makes a computer execute the method of any one of claims 1 to 12.

15. A program product comprising instructions, used for performing the method according to any one of claims

1 to 12.

16. A multicast/broadcast service communication system, wherein the multicast/broadcast service communication system comprises: an access network device, and an access and mobility management function; wherein

the access network device is configured to perform the method according to claim 11 or 12; and

the access and mobility management function is configured to send the eighth message.

17. A multicast/broadcast service communication method, comprising:

sending, by an access and mobility management function, an eighth message to an access network device, wherein the eighth message carries identification information of a first multicast/broadcast service, and the first multicast/broadcast service is a multicast/broadcast service that a terminal device is to leave;

receiving, by the access network device, the eighth message; and

releasing, by the access network device, an air interface resource that is allocated to the terminal device for the first multicast/broadcast service.

18. The method according to claim 17, wherein the method further comprises:

when the terminal device is the last terminal device that leaves the first multicast/broadcast service via the access network device, releasing, by the access network device, a service data transmission tunnel between the access network device and a core network device for the first multicast/broadcast service.