CLAIMS

What is claimed is:

1. A communication method for a terminal device, comprising:

receiving, a first paging message; and

if the first paging message comprises an identifier of a first multicast service and does not comprise a second identifier of the terminal device, initiating, radio resource control, RRC, connection resume, wherein

the second identifier of the terminal device is provided by a non-access stratum, NAS, layer of the terminal device, and the second identifier of the terminal device comprises any one or more of the following: a 5G S-temporary mobile subscription identifier, 5G-S-TMSI, a system architecture evolution temporary mobile station identifier, S-TMSI, an international mobile subscriber identity, IMSI, or a ng-5G-S-TMSI.

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

determining, a first RRC connection resume cause according to an access identity, AI.

3. The method according to claim 1 or 2, wherein the determining, a first RRC connection resume cause according to an access identity, comprising:

if an access identity 1 is configured by an upper layer of the terminal device, setting the first RRC connection resume cause to multimedia priority service-PriorityAccess mps-PriorityAccess;

if the access identity 1 is not configured by the upper layer of the terminal device, and an access identity 2 is configured by the upper layer of the terminal device, setting the first RRC connection resume cause to mission critical service-PriorityAccess mcs-PriorityAccess;

if the access identity 1 and the access identity 2 are not configured by the upper layer of the terminal device, and one or more of an access identity 11 to an access identity 15 are configured by the upper layer of the terminal device, setting the first RRC connection resume cause to highPriorityAccess highPriorityAccess; or

if the access identity 1, the access identity 2, and the access identity 11 to the access identity 15 are not configured by the upper layer of the terminal device, setting the first RRC connection resume cause to mobile terminated access mt-Access.

4. The method according to any one of claims 1 to 3, wherein after the receiving, a first paging message, the method further comprising:

when the first paging message comprises the second identifier of the terminal device, determering, that the terminal device enters an RRC idle state.

5. The method according to claim 4, wherein the method further comprising:

determining a release cause is “other”.

6. The method according to any one of claims 1 to 5, wherein the multicast service comprises a multicast service that the terminal device joins.

7. The method according to any one of claims 1 to 6, wherein the terminal device is in an RRC inactive state.

8. The method according to any one of claims 1 to 7, wherein the identifier of the first multicast service is a temporary mobile group identity, TMGI.

9. The method according to any one of claims 1 to 8, wherein the method further comprising:

if the first paging message comprises the identifier of the first multicast service, sending, the identifier of the first multicast service to the NAS layer of the terminal device.

10. The method according to any one of claims 1 to 9, wherein the initiating, RRC connection resume, comprising:

sending, a first message, wherin the first message is used to request to resume an RRC connection.

11. The method according to claim 10, wherein the first message is an *RRCResumeRequest* message or an *RRCResumeRequest1* message.

12. The method according to claim 10 or 11, wherein the first message comprises information of first identifier of the first terminal device, wherein the first identifier of the first terminal device is used to identify a suspended UE context of the first terminal device, or is used to identify the UE context of the first terminal device.

13. The method according to claim 12, wherin the first identifier of the first terminal device comprises one or more of the following: a full I-RNTI, a full I-RNTI of the first terminal device, a full I-RNTI stored in the first terminal device, an I-RNTI, an I-RNTI of the first terminal device, or an I-RNTI stored in the first terminal device.

14. A communications apparatus for a terminal device, comprising a processing unit and a transceiver unit, wherein

the transceiver unit is configured to receive a first paging message; and

the processing unit is configured to if the first paging message comprises an identifier of a first multicast service and does not comprise a second identifier of the terminal device, initiating, radio resource control, RRC, connection resume, wherein

the second identifier of the terminal device is provided by a non-access stratum, NAS, layer of the terminal device, and the second identifier of the terminal device comprises any one or more of the following: a 5G S-temporary mobile subscription identifier, 5G-S-TMSI, a system architecture evolution temporary mobile station identifier, S-TMSI, an international mobile subscriber identity, IMSI, or a ng-5G-S-TMSI.

15. The communications apparatus according to claim 14, wherein the processing unit is

further configured to determine a first RRC connection resume cause according to an access identity, AI.

16. The communications apparatus according to claim 14 or 15, wherein the processing unit is further configured to:

if an access identity 1 is configured by an upper layer of the terminal device, set the first RRC connection resume cause to multimedia priority service-PriorityAccess mps-PriorityAccess;

if the access identity 1 is not configured by the upper layer of the terminal device, and an access identity 2 is configured by the upper layer of the terminal device, set the first RRC connection resume cause to mission critical service-PriorityAccess mcs-PriorityAccess;

if the access identity 1 and the access identity 2 are not configured by the upper layer of the terminal device, and one or more of an access identity 11 to an access identity 15 are configured by the upper layer of the terminal device, set the first RRC connection resume cause to highPriorityAccess highPriorityAccess; or

if the access identity 1, the access identity 2, and the access identity 11 to the access identity 15 are not configured by the upper layer of the terminal device, set the first RRC connection resume cause to mobile terminated access mt-Access.

17. The communications apparatus according to any one of claims 14 to 16, wherin the processor unit is further configured to when the first paging message comprises the second identifier of the terminal device, determine, that the terminal device enters an RRC idle state.

18. The communications apparatus according to any one of claims 14 to 17, wherin the processor unit is further configured to determine a release cause is “other”.

19. The communications apparatus according to any one of claims 14 to 18, wherein the multicast service comprises a multicast service that the terminal device joins.

20. The communications apparatus accrding to any one of claims 14 to 19, wherein the terminal device is in an RRC inactive state.

21. The communications apparatus according to any one of claims 14 to 20, wherein the identifier of the first multicast service is a temporary mobile group identity, TMGI.

22. The communications apparatus according to any one of claims 14 to 21, wherein the transceiver unit is further configured to if the first paging message comprises the identifier of the first multicast service, send, the identifier of the first multicast service to the NAS layer of the terminal device.

23. The communications apparatus according to any one of claims 14 to 22, wherein the transceiver unit is further configured to send a first message, wherin the first message is used to request to resume an RRC connection.

24. The communications apparatus according to claim 23, wherein the first message is an

RRCResumeRequest message or an *RRCResumeRequest1* message.

25. The communications apparatus according to claim 23 or 24, wherein the first message comprises information of first identifier of the first terminal device, wherein the first identifier of the first terminal device is used to identify a suspended UE context of the first terminal device, or is used to identify the UE context of the first terminal device.

26. The communications apparatus according to claim 25, wherin the first identifier of the first terminal device comprises one or more of the following: a full I-RNTI, a full I-RNTI of the first terminal device, a full I-RNTI stored in the first terminal device, an I-RNTI, an I-RNTI of the first terminal device, or an I-RNTI stored in the first terminal device.

27. A communication apparatus, comprising a processing circuit and an interface circuit, wherein the interface circuit is configured to: receive a signal from another communication apparatus other than the communication apparatus, and transmit the signal to a processor; or send a signal from a processor to another communication apparatus other than the communication apparatus, wherein the processing circuit is configured to implement the method according to any one of claims 1 to 13.

28. A computer-readable storage medium, wherein the storage medium stores a computer program or instructions, and when the computer program or the instructions are executed by a communication apparatus, the method according to any one of claims 1 to 13.