

CLAIMS

What is claimed is:

1. A message notification method, performed by a terminal, wherein the terminal is a multi-SIM-card terminal comprising user equipment 1, UE1, and UE2,
5 the method comprises:

determining, by the UE1 corresponding to a first network, whether a first condition is met; and

sending a notification message to a first network device of the first network when the first condition is met; or

10 skipping sending a notification message to the first network device of the when the first condition is not met; wherein

the first condition comprises:

a first timer expires or is not running, wherein the first timer is used to prohibit the terminal from sending the notification message to the first network device of
15 the first network;

wherein the notification message is used to notify that the terminal suspends monitoring scheduling and/or paging, or to require allocation of a time division multiplexing, TDM, mode.

2. The method according to claim 1, wherein

20 the notification message comprises at least one of a leaving message and a return message.

3. The method according to claim 1, wherein the first condition further comprises a notification message reporting condition; and the notification message reporting condition comprises any one of the following:

25 a service type of paging received by the terminal from a second network is a preset service type;

a service type triggered by the terminal on a second network corresponding to the UE2 is a preset service type;

the terminal receives paging from the second network;
the terminal initiates a service on the second network;
the terminal ends a service conforming to a preset service type on the second network; or

5 the terminal ends a service on the second network.

4. The method according to claim 3, wherein the preset service type comprises any one of the following:

voice, short message, radio resource control RRC signaling, or non-access stratum NAS signaling.

10 5. The method according to claim 1, wherein the notification message reporting condition is determined by the terminal based on at least one of the following:

a network configuration;

a specified rule in a protocol; or

15 a status of the terminal itself.

6. The method according to claim 5, wherein the network configuration is sent to the terminal by using any one of the following:

broadcast system information or dedicated signaling.

7. The method according to claim 1, wherein a running duration threshold of
20 the first timer is specified in a protocol; or

a running duration threshold of the first timer is configured for the terminal by using dedicated signaling or broadcast system information.

8. The method according to claim 1, wherein a startup condition of the first timer is that the terminal sends the notification message to the first network device
25 of the first network.

9. The method according to claim 1, wherein a stop condition of the first timer comprises any one of the following:

running duration of the first timer reaches a preset threshold; or

a new timer parameter value is reconfigured for the first timer.

10. A message notification method, performed by a first network device for a first network and comprising:

receiving a notification message specific to the first network from a terminal, wherein the terminal is a multi-SIM-card terminal comprising the UE1 and UE2,
5 and the UE1 corresponds to the first network, wherein

the notification message is sent by the terminal when a first condition is met, and the first condition comprises:

a first timer expires or is not running, wherein the first timer is used to prohibit the terminal from sending the notification message to the first network device of
10 the first network;

wherein the notification message is used to notify that the terminal suspends monitoring scheduling and/or paging, or to require allocation of a time division multiplexing, TDM, mode.

11. The method according to claim 10, wherein
15 the notification message comprises at least one of a leaving message and a return message.

12. The method according to claim 10, wherein the first condition further comprises a notification message reporting condition; and the notification message reporting condition comprises any one of the following:

20 a service type of paging received by the terminal from a second network corresponding to the UE2 is a preset service type;

a service type triggered by the terminal on the second network is a preset service type;

the terminal receives paging from the second network;

25 the terminal initiates a service on the second network;

the terminal ends a service conforming to a preset service type on the second network; or

the terminal ends a service on the second network.

13. The method according to claim 10, wherein the notification message reporting condition is determined by the terminal based on at least one of the following:

a network configuration;

5 a specified rule in a protocol; or

a status of the terminal itself.

14. The method according to claim 10, wherein a running duration threshold of the first timer is specified in a protocol; or

a running duration threshold of the first timer is configured by the network
10 device for the terminal by using dedicated signaling or broadcast system information.

15. The method according to claim 10, wherein after the receiving a notification message specific to a first network from a terminal, the method further comprises:

15 determining, according to content indicated by the notification message, whether to schedule or page the terminal through the first network.

16. A terminal, wherein the terminal is a multi-SIM-card terminal comprising user equipment 1, UE1, and UE2, the terminal comprises:

a first determining module, configured to determine, by the UE1
20 corresponding to a first network, whether a first condition is met; and

a sending module, configured to: send a notification message to a first network device of the first network when the first condition is met, or skip sending a notification message to the first network device of the first network when the first condition is not met; wherein

25 the first condition comprises:

a first timer expires or is not running, wherein the first timer is used to prohibit the terminal from sending the notification message to the first network device of the first network;

wherein the notification message is used to notify that the terminal suspends monitoring scheduling and/or paging, or to require allocation of a time division multiplexing, TDM, mode.

17. A network device, wherein the network device is a first network device for
5 a first network, and comprising:

a receiving module, configured to receive a notification message specific to the first network from a terminal, wherein the terminal is a multi-SIM-card terminal comprising the UE1 and UE2, and the UE1 corresponds to the first network, wherein

10 the notification message is sent by the terminal when a first condition is met, and the first condition comprises:

a first timer expires or is not running, wherein the first timer is used to prohibit the terminal from sending the notification message to the first network device of the first network;

15 wherein the notification message is used to notify that the terminal suspends monitoring scheduling and/or paging, or to require allocation of a time division multiplexing, TDM, mode.

18. A communications device, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor,
20 wherein when the computer program is executed by the processor, the steps of the message notification method according to any one of claims 1 to 9 are implemented, or the steps of the message notification method according to any one of claims 10 to 15 are implemented.

19. A computer-readable storage medium, wherein a computer program is
25 stored in the computer-readable storage medium, and when the computer program is executed by a processor, the steps of the message notification method according to any one of claims 1 to 9 are implemented, or the steps of the message notification method according to any one of claims 10 to 15 are implemented.