CLAIMS

What is claimed is:

~~1. A paging method, comprising:~~

~~receiving, by a first access network device, downlink data of a terminal from a first core network device, wherein the first access network device and the first core network device belong to a first network; and~~

~~sending, by the first access network device, a first message to a second access network device, wherein the second access network device belongs to a second network, and the first message is used to indicate the second access network device to assist in paging the terminal.~~

~~2. The method according to claim 1, wherein the first message comprises at least one of the following:~~

~~network identification information of the first network, an identifier of the terminal in the first network, or identification information of one or more cells of the first network.~~

~~3. The method according to claim 1 or 2, wherein the first message further comprises first indication information, and the first indication information is used to indicate the second access network device to page the terminal in a cell of the second network.~~

~~4. The method according to any one of claims 1 to 3, wherein the second access network device further belongs to the first network.~~

~~5. The method according to any one of claims 1 to 4, wherein the first message further comprises second indication information, the second indication information is used to indicate a paging policy for the second access network device to page the terminal, and the paging policy comprises: performing paging in the cell of the first network, performing paging in the cell of the second network, or performing paging in both the cell of the first network and the cell of the second network.~~

~~6. The method according to claim 5, wherein the first message comprises at least one of the following: network identification information of the second network, an identifier of the terminal in the second network, or identification information of one or more cells of the second network.~~

~~7. The method according to claim 2, wherein the network identification information comprises one or more of the following: a public land mobile network identifier PLMN ID, a network identifier NID, a closed access group identifier CAG ID, a human readable network name~~

~~HRNN corresponding to the NID, or an HRNN corresponding to the CAG ID.~~

~~8. The method according to any one of claims 1 to 7, wherein the method further comprises:~~

~~sending, by the first access network device, context information of the terminal in the first network to the second access network device.~~

~~9. The method according to any one of claims 1 to 8, wherein the first message further comprises one or more of the following information:~~

~~a cause for sending the first message, an identifier of the second access network device, a tracking area code corresponding to one or more cells of the second access network device, a radio network area code corresponding to the one or more cells of the second access network device, or timer information used to indicate the terminal device to access the first network within a specified time.~~

~~10. A paging method, wherein the method is applied to an access network device, the access network device belongs to a first network and a second network, the access network device comprises a central unit CU and a distributed unit DU, and the method comprises:~~

~~receiving, by the CU, downlink data of a terminal from each of a first core network device and a second core network device, wherein the first core network device belongs to the first network, and the second core network device belongs to the second network; and~~

~~sending, by the CU, a first message to the DU, wherein the first message is used to indicate a paging policy for paging the terminal, and the paging policy comprises: performing paging in a cell of the first network, performing paging in a cell of the second network, or performing paging in both a cell of the first network and a cell of the second network.~~

~~11. The method according to claim 10, wherein the first message comprises at least one of the following:~~

~~network identification information of the first network, an identifier of the terminal in the first network, or identification information of one or more cells of the first network.~~

~~12. The method according to claim 10 or 11, wherein the first message comprises at least one of the following: network identification information of the second network, an identifier of the terminal in the second network, or identification information of one or more cells of the second network.~~

~~13. The method according to claim 11 or 12, wherein the network identification information comprises at least one of the following: a public land mobile network identifier PLMN ID, a~~

network identifier NID, a closed access group identifier CAG ID, a human readable network name HRNN corresponding to the NID, or an HRNN corresponding to the CAG ID.

14. The method according to any one of claims 10 to 13, wherein the first message comprises one or more of the following information:

a cause for sending the first message, information about the first network, or information about the second network, wherein

the information about the first network comprises one or more of the following: a tracking area code corresponding to the one or more cells of the first network, a radio network area code corresponding to the one or more cells of the first network, and timer information used to indicate the terminal device to access the first network within a specified time; and

the information about the second network comprises one or more of the following: a tracking area code corresponding to the one or more cells of the second network, a radio network area code corresponding to the one or more cells of the second network, and timer information used to indicate the terminal to access the second network within a specified time.

15. An apparatus, comprising:

a receiving module, configured to receive downlink data of a terminal from a first core network device, wherein the first access network device and the first core network device belong to a first network; and

a sending module, configured to send a first message to a second access network device, wherein the second access network device belongs to a second network, and the first message is used to indicate the second access network device to assist in paging the terminal.

16. The apparatus according to claim 15, wherein the first message comprises at least one of the following:

network identification information of the first network, an identifier of the terminal in the first network, or identification information of one or more cells of the first network.

17. The apparatus according to claim 15 or 16, wherein the first message further comprises first indication information, and the first indication information is used to indicate the second access network device to page the terminal in a cell of the second network.

18. The apparatus according to any one of claims 15 to 17, wherein the second access network device further belongs to the first network.

19. The apparatus according to any one of claims 15 to 18, wherein the first message further

comprises second indication information, the second indication information is used to indicate a paging policy for the second access network device to page the terminal, and the paging policy comprises: performing paging in the cell of the first network, performing paging in the cell of the second network, or performing paging in both the cell of the first network and the cell of the second network.

20. The apparatus according to claim 19, wherein the first message comprises at least one of the following: network identification information of the second network, an identifier of the terminal in the second network, or identification information of one or more cells of the second network.

21. The apparatus according to claim 16, wherein the network identification information comprises one or more of the following: a public land mobile network identifier PLMN ID, a network identifier NID, a closed access group identifier CAG ID, a human readable network name HRNN corresponding to the NID, or an HRNN corresponding to the CAG ID.

22. The apparatus according to any one of claims 15 to 21, wherein the sending module is further configured to:

send context information of the terminal in the first network to the second access network device.

23. The apparatus according to any one of claims 15 to 22, wherein the first message further comprises one or more of the following information:

a cause for sending the first message, an identifier of the second access network device, a tracking area code corresponding to one or more cells of the second access network device, a radio network area code corresponding to the one or more cells of the second access network device, or timer information used to indicate the terminal device to access the first network within a specified time.

24. An apparatus, wherein the apparatus is applied to an access network device, the access network device belongs to a first network and a second network, the access network device comprises a central unit CU and a distributed unit DU, and the CU comprises:

a receiving module, configured to receive downlink data of a terminal from each of a first core network device and a second core network device, wherein the first core network device belongs to the first network, and the second core network device belongs to the second network; and

a sending module, configured to send a first message to the DU, wherein the first message is used to indicate a paging policy for paging the terminal, and the paging policy comprises: performing paging in a cell of the first network, performing paging in a cell of the second network, or performing paging in both a cell of the first network and a cell of the second network.

25. The apparatus according to claim 24, wherein the first message comprises at least one of the following:

network identification information of the first network, an identifier of the terminal in the first network, or identification information of one or more cells of the first network.

26. The apparatus according to claim 24 or 25, wherein the first message comprises at least one of the following: network identification information of the second network, an identifier of the terminal in the second network, or identification information of one or more cells of the second network.

27. The apparatus according to claim 25 or 26, wherein the network identification information comprises at least one of the following: a public land mobile network identifier PLMN ID, a network identifier NID, a closed access group identifier CAG ID, a human readable network name HRNN corresponding to the NID, or an HRNN corresponding to the CAG ID.

28. The apparatus according to any one of claims 24 to 27, wherein the first message comprises one or more of the following information:

a cause for sending the first message, information about the first network, or information about the second network, wherein

the information about the first network comprises one or more of the following: a tracking area code corresponding to the one or more cells of the first network, a radio network area code corresponding to the one or more cells of the first network, and timer information used to indicate the terminal device to access the first network within a specified time; and

the information about the second network comprises one or more of the following: a tracking area code corresponding to the one or more cells of the second network, a radio network area code corresponding to the one or more cells of the second network, and timer information used to indicate the terminal to access the second network within a specified time.

29. An apparatus, comprising a processor and a communications interface, wherein the communications interface is configured to communicate with another communications apparatus; and the processor is configured to run a set of programs, so that the apparatus implements the

~~method according to any one of claims 1 to 14.~~

1. A communications method comprising:

receiving, by a user equipment, UE, system information block, SIB, broadcast by a cell of a radio access network device, wherein the SIB comprises a human readable network name, HRNN, of a stand-alone non-public networks, SNPN, network, or a human readable network name, HRNN, of a public network integrated non-public networks, PNI-NPN, network, wherein a order of the HRNNs is the same as the order of public land mobile network identifier, PLMN IDs, and network identifier, NIDs, / closed access group identifier, CAG IDs, in a system information block 1, SIB1, wherein the SIB does not comprise PLMN IDs and NIDs/CAG IDs;

obtaining by the UE, from the system information, information of a network to which the cell supports access.

2. The communications method of claim 1, wherein in a case that a network identified by the PLMN ID and the NID/CAG ID is not configured with corresponding HRNN, the corresponding entry is absent.

3. The communications method of claim 1 or 2, wherein the method further comprises:

receiving, by the UE, a radio resource control, RRC, setup message, from the radio access network device;

sending, by the UE, to the radio access network device, a radio resource control, RRC, setup complete message, wherein the RRC setup complete message comprises network identification information of a network selected by the UE to access.

4. The communications method of claim 3, wherein the network identification information of a network selected by the UE to access comprises: a PLMN ID and a NID.

5. The communications method of claim 1 or 2, wherein the system information is a newly defined System Information Block, SIB.

6. A communications apparatus comprising:

a receiving module, configured to receive system information block, SIB, broadcast by a cell of a radio access network device, wheriein the system information comprises a human readable network name, HRNN, of a stand-alone non-public networks, SNPN, network, or a human readable network name, HRNN, of a public network integrated non-public networks, PNI-NPN, network, wherein a order of the HRNNs is the same as the order of public land mobile network identifier, PLMN IDs and the network identifier, NIDs, / closed access group identifier, CAG IDs

in the SIB1,wherein the SIB does not comprise PLMN IDs and NIDs/CAG IDs;

a processing module, configured to obtain from the system information, information of a network to which the cell supports access.

7. The communications apparatus of claim 6, wherein in a case that a network identified by the PLMN ID and the NID/CAG ID is not configured with corresponding HRNN, the corresponding entry is absent.

8. The communication apparatus of claim 6 or 7, wherein the receiving module, configured to receive a radio resource control, RRC, setup message, from the radio access network device;

the communication apparatus further comprises a sending module,

wherein the sending module is configured to send to the radio access network device a radio resource control, RRC, setup complete message, wherein the RRC setup complete message comprises network identification information of a network selected by the UE to access.

9. The communications apparatus of claim 8, wherein the network identification information of a network selected by the UE to access comprises: a PLMN ID and a NID.

10. The communications apparatus of claim 6 or 7, wherein the system information is a newly defined System Information Block, SIB.

11. A communications apparatus comprising: a processor and a communications interface, wherein the communications interface is used to communicate with another device, wherein the processor is configured to invoke a set of programs to perform the method according to any one of claims 1 to 5.

~~30~~12. A computer-readable storage medium, wherein the computer storage medium stores a computer-readable instruction, and when the computer-readable instruction is run on a communications apparatus, the communications apparatus is enabled to perform the method according to any one of claims 1 to ~~14~~5.