

CLAIMS

What is claimed is:

1. A communication method, comprising:

receiving, by a first network device, a first message, wherein the first message comprises an
5 identifier of a terminal device;

determining, by the first network device, first network selection information, wherein the first
network selection information comprises information about a standalone non-public network
SNPN that allows the terminal device to access and information about whether the terminal device
is allowed to access a public land mobile network PLMN wherein the information about the SNPN
10 that allows the terminal device to access comprises an identifier of the SNPN that allows the
terminal device to access, and the information about the SNPN that allows the terminal device to
access further comprises first priority information, wherein the first priority information indicates
a priority sequence of the SNPN that allows the terminal device to access; and

sending, by the first network device, a second message, wherein the second message
15 comprises the first network selection information;

wherein before the determining, by the first network device, first network selection
information, the method further comprises:

marking, by the first network element, the terminal device as being in a roaming state,
wherein a serving network of the terminal device is a PLMN, and a home network of the terminal
20 device is an SNPN, and

wherein the information about whether the terminal device is allowed to access a PLMN
comprises:

an identifier of a PLMN that allows the terminal device to access and second priority
information, wherein the second priority information indicates a priority sequence of the PLMN
25 that allows the terminal device to access, and a priority indicated by the second priority information
is lower than a priority indicated by the first priority information.

2. The method according to claim 1, wherein the determining, by the first network device,
first network selection information comprises:

determining, by the first network device, the first network selection information based on at
30 least one of subscription data, policy data, and a local configuration of the terminal device.

3. The method according to claim 1 or 2, wherein the first network device is an access and mobility management function network element AMF, and before the determining, by the first network device, first network selection information, the method further comprises:

5 sending, by the first network device, a third message to a unified data management network element UDM, wherein the third message is used to obtain the subscription data of the terminal device, and the subscription data comprises the information about the SNPN that allows the terminal device to access; and

10 receiving, by the first network device, a fourth message sent by the UDM, wherein the fourth message comprises the subscription data of the terminal device.

4. A communication method, comprising:

 receiving, by a second network device, a first message, wherein the first message comprises an identifier of a terminal device; and

15 sending, by the second network device, a second message, wherein the second message comprises information about a standalone non-public network SNPN that allows the terminal device to access and information about whether the terminal device is allowed to access a public land mobile network PLMN, wherein the second network device is a unified data management network element UDM, the second message is subscription data of the terminal device, and the subscription data comprises the information about the SNPN that allows the terminal device to
20 access and the information about whether the terminal device is allowed to access a PLMN, and the information about the SNPN that allows the terminal device to access comprises at least an identifier of the SNPN that allows access and first priority information, wherein the first priority information indicates a priority of the SNPN that allows access, and the information about whether the terminal device is allowed to access a PLMN comprises second priority information, indicating
25 a priority of the PLMN that allows access, wherein the priority indicated by the second priority information is lower than a priority indicated by the first priority information.

5. A communication method, comprising:

 sending, by a terminal device, a first message, wherein the first message comprises an identifier of the terminal device; and

30 receiving, by the terminal device, a second message, wherein the second message comprises first network selection information, and the first network selection information comprises

information about a standalone non-public network SNPN that allows the terminal device to access and information about whether the terminal device is allowed to access a public land mobile network PLMN, wherein the information about the SNPN that allows the terminal device to access comprises:

5 an identifier of the SNPN that allows the terminal device to access and the information about the SNPN that allows the terminal device to access further comprises first priority information, wherein the first priority information indicates a priority sequence of the SNPN that allows the terminal device to access and, wherein the information about whether the terminal device is allowed to access a PLMN comprises:

10 an identifier of a PLMN that allows the terminal device to access and second priority information, wherein the second priority information indicates a priority sequence of the PLMN that allows the terminal device to access, and a priority of the second priority information is lower than a priority of the first priority information.

15 6. An apparatus, characterized by being configured to carry out a method according to any one of claims 1 to 5.

7. A computer-readable storage medium having instructions recorded thereon; wherein the instructions make a computer execute the method of any one of claims 1 to 5.

8. A communication system, comprising:

a first network device, a second network device and a terminal; and

20 the first network device executes the method of any one of claims 1 to 3, the second network device executes the method of claim 4 and the terminal executes the method of claim 5.