CLAIMS

1. A network slice-based communication method, wherein the method comprises:

determining, by a network device, a network slice that a terminal is allowed to access and a network slice that the terminal is rejected to access;

determining, by the network device, a registration area of the terminal based on the network slice that the terminal is allowed to access and the network slice that the terminal is rejected to access; and

sending, by the network device, information about the registration area to the terminal.

2. The method according to claim 1, wherein the network slice that the terminal is rejected to access comprises a first network slice, the network slice that the terminal is allowed to access comprises a second network slice, and the registration area excludes a tracking area that supports both the first network slice and the second network slice, or the registration area excludes a tracking area of an access network device that supports both the first network slice and the second network slice.

3. The method according to claim 2, wherein the first network slice is a network slice not supported by the current tracking area.

4. The method according to claim 1, wherein the method further comprises:

receiving, by the network device via a first access network device in a first network, information about a network slice that the terminal requests to access, wherein the information about the network slice that the terminal requests to access comprises identification information of a first network slice not supported by a first tracking area and comprises identification information of a second network slice supported by the first tracking area, and the first tracking area is a tracking area of the first access network device;

the network slice that the terminal is allowed to access comprises the second network slice, and the network slice that the terminal is rejected to access comprises the first network slice; and

the registration area excludes a tracking area that supports the first network slice and the second network slice, or the registration area excludes a tracking area of an access network device that supports the first network slice and the second network slice.

5. The method according to claim 4, wherein the first network slice is a network slice that the terminal is allowed to access in the first network.

6. The method according to claim 4 or 5, wherein the method further comprises:

determining, by the network device, a network slice supported by the tracking area of the first access network device.

7. A network slice-based communication method, wherein the method comprises:

learning, by a terminal from a network device, that a first network slice is available in a second cell or a tracking area in which a second cell is located, wherein the first network slice does not belong to a network slice that the terminal is allowed to access in a tracking area in which a first cell is located, and a registration area of the terminal comprises the first cell and the second cell; and

initiating, by the terminal, a registration procedure for an application corresponding to the first network slice.

8. The method according to claim 7, wherein the first network slice is comprised in a network slice configured for the terminal in a first network.

9. The method according to claim 7 or 8, wherein the first network slice is comprised in a network slice that the terminal requests to access in the first cell.

10. The method according to any one of claims 7 to 9, wherein the method further comprises:

receiving, by the terminal, a cell identifier from the network device, wherein the cell identifier is used for the second cell.

11. The method according to claim 10, wherein the initiating, by the terminal, a registration procedure for an application corresponding to the first network slice comprises:

accessing, by the terminal, the second cell; and

initiating, by the terminal, the registration procedure for the application via the second cell.

12. The method according to any one of claims 7 to 11, wherein the initiating, by the terminal, a registration procedure for an application corresponding to the first network slice comprises:

determining, by the terminal, whether the first network slice is a network slice corresponding to the application in response to that a context of the terminal does not comprise a session used for the application and does not comprise a route selection policy used for the application; and

initiating, by the terminal, the registration procedure for the application when the first network slice is the network slice corresponding to the application.

13. A network slice-based communication method, wherein the method comprises:

receiving information about a registration area of a terminal from a network device, wherein a network slice that the terminal is rejected to access comprises a first network slice, a network slice that the terminal is allowed to access comprises a second network slice, and the registration area excludes a tracking area that supports both the first network slice and the second network slice, or the registration area excludes a tracking area of an access network device that supports both the first network slice and the second network slice; and

performing, when the terminal moves into an tracking area outside the registration area, a mobility registration update procedure to request to access the first network slice, wherein the excluded tracking area supports the first network slice.

14. A communication apparatus, comprising: a processor, wherein

the processor is configured to read a program from a memory and run the program, to implement the method according to any one of claims 1 to 6.

15. A communication apparatus, comprising: a processor, wherein

the processor is configured to read a program from a memory and run the program, to implement the method according to any one of claims 7 to 12 or implement the method according to claim 13.

16. A program product comprising instructions, wherein when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 13.

17. A computer readable medium, wherein the computer-readable storage medium stores instructions, and when the instructions are run on a computer, a processor is enabled to perform the method according to any one of claims 1 to 13.

18. A computer program, wherein when the computer program runs on a communication apparatus, the method according to any one of claims 1 to 13 is performed.

19. A communication apparatus, wherein the communication apparatus comprises: a logic circuit and an interface circuit;

the interface circuit is configured to obtain input information and/or output output information; and

the logic circuit is configured to perform the method according to any one of claims 1 to 6, to process the information input through the interface circuit and/or generate the information output through the interface circuit.

20. A communication apparatus, wherein the communication apparatus comprises: a logic circuit and an interface circuit;

the interface circuit is configured to obtain input information and/or output output information; and

the logic circuit is configured to perform the method according to any one of claims 7 to 12, to process the information input through the interface circuit and/or generate the information output through the interface circuit, or configured to perform the method according to claim 13.