CLAIMS

What is claimed is:

1. A control method for obtaining an emergency service, ~~applied to~~performed by a terminal and comprising:

obtaining access control information provided by a cell, wherein the access control information is used to indicate whether a terminal working in a target network mode is supported in obtaining the emergency service; and

in a case that a network mode in which the terminal works matches the target network mode and that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, determining that the cell is a cell in which the emergency service is available.

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

in a case that the network mode in which the terminal works matches the target network mode and that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, determining that the cell in which the emergency service is available is a candidate cell for cell selection or reselection.

3. The method according to claim 1, wherein the target network mode comprises a standalone non-public network SNPN mode and a public land mobile network PLMN mode.

4. The method according to claim 3, wherein

the terminal working in the SNPN mode comprises a terminal having SNPN capability and working in the SNPN mode; and

the terminal working in the PLMN mode comprises at least one of:

a terminal having SNPN capability and working in the PLMN mode;

a terminal having closed access group CAG capability; and

a terminal having neither SNPN capability nor CAG capability.

5. The method according to claim 4, wherein

the access control information comprises at least one of the following: first indication information and second indication information; wherein

the first indication information is used to indicate whether the terminal working in the SNPN mode is supported in obtaining the emergency service; and the second indication information is used to indicate whether the terminal working in the PLMN mode is supported in obtaining the emergency service.

6. The method according to claim 1, wherein a type of the cell comprises at least one of the following:

a cell that supports PLMN and SNPN access; a cell that supports SNPN, PLMN, and closed access group CAG access; a cell that supports SNPN and CAG access; and a cell that supports SNPN access.

7. The method according to claim 4, wherein the obtaining access control information provided by a cell comprises:

obtaining, through an access stratum, access control information provided by the cell.

8. The method according to claim 7, wherein, after the obtaining, through an access stratum, access control information provided by a cell, the method further comprises:

forwarding the access control information to a non-access stratum through the access stratum.

9. The method according to claim 8, wherein, after the obtaining, through an access stratum, access control information provided by a cell, the method further comprises:

forwarding network identification information to the non-access stratum through the access stratum, wherein the network identification information is used to identify a target network corresponding to the access control information.

10. The method according to claim 9, wherein in a case that the network identification information is used to identify the target network corresponding to the access control information, when an emergency service is initiated through the non-access stratum, the method further comprises:

in a case that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, that a network mode in which the terminal works matches the target network mode, and that identification of a network selected or registered by the terminal does not match the target network identified by the network identification information, selecting, through the non-access stratum, the target network identified by the network identification information.

11. The method according to claim 9, wherein in a case that the network identification information is used to identify the target network corresponding to the access control information, when an emergency service is initiated through the non-access stratum, the method further comprises:

in a case that the access control information indicates that the terminal working in a first target network mode is not supported in obtaining the emergency service, that a network mode of the terminal matches the first target network mode, and that identification of a network selected or registered by the terminal matches the first target network identified by the network identification information, selecting a second target network through the non-access stratum, wherein access control information corresponding to the second target network indicates that the terminal working in the first target network mode is supported in obtaining the emergency service.

12. The method according to claim 1, further comprising:

in a case that the network mode in which the terminal works does not match the target network mode or that the access control information indicates that the terminal working in the target network mode is not supported in obtaining the emergency service, determining that the cell is a cell in which the emergency service is not available.

13. The method according to claim 12, further comprising:

in the case that a network mode in which the terminal works does not match the target network mode or that the access control information indicates that the terminal

working in the target network mode is not supported in obtaining the emergency service, disabling the cell.

14. The method according to any one of claims 1 to 13, wherein the terminal working in the target network mode is in a limited service state.

15. A control apparatus for obtaining an emergency service, comprising:

an obtaining module, configured to obtain access control information provided by a cell, wherein the access control information is used to indicate whether a terminal working in a target network mode is supported in obtaining the emergency service; and

a first determining module, configured to: in a case that a network mode in which the terminal works matches the target network mode and that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, determine that the cell is a cell in which the emergency service is available.

~~16. The apparatus according to claim 15, further comprising:~~

~~a second determining module, configured to: in a case that the network mode in which the terminal works matches the target network mode and that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, determine that the cell in which the emergency service is available is a candidate cell for cell selection or reselection.~~

~~17~~16. The apparatus according to claim 15, wherein the target network mode comprises a standalone non-public network SNPN mode and a public land mobile network PLMN mode.

~~18~~17. The apparatus according to claim ~~17~~16, wherein

the terminal working in the SNPN mode comprises a terminal having SNPN capability and working in the SNPN mode; and

the terminal working in the PLMN mode comprises a terminal having SNPN capability and working in the PLMN mode, a terminal having closed access group CAG capability, and a terminal having neither SNPN capability nor CAG capability.

~~19. The apparatus according to claim 18, wherein~~

~~the access control information comprises at least one of the following: first indication information and second indication information; wherein~~

~~the first indication information is used to indicate whether the terminal working in the SNPN mode is supported in obtaining the emergency service; and the second indication information is used to indicate whether the terminal working in the PLMN mode is supported in obtaining the emergency service.~~

~~20. The apparatus according to claim 15, wherein a type of the cell comprises at least one of the following:~~

~~a cell that supports PLMN and SNPN access; a cell that supports SNPN, PLMN, and closed access group CAG access; a cell that supports SNPN and CAG access; and a cell that supports SNPN access.~~

~~21~~18. The apparatus according to claim ~~18~~17, wherein the obtaining module is further configured to obtain, through an access stratum, the access control information provided by the cell.

~~22. The apparatus according to claim 21, further comprising:~~

~~a first inputting module, configured to forward the access control information to a non-access stratum through the access stratum.~~

~~23. The apparatus according to claim 22, further comprising:~~

~~a second inputting module, configured to forward network identification information to the non-access stratum through the access stratum, wherein the network identification information is used to identify a target network corresponding to the access control information.~~

~~24. The apparatus according to claim 23, wherein in a case that the network identification information is used to identify the target network corresponding to the access control information, when an emergency service is initiated through the non-access stratum, the apparatus further comprises:~~

~~a first selecting module, configured to: in a case that the access control information indicates that the terminal working in the target network mode is supported in obtaining the emergency service, that a network mode in which the terminal works matches the target network mode, and that a network selected or~~

registered by the terminal does not match the target network identified by the network identification information, select, through the non-access stratum, a target network identified by the network identification information.

25. The apparatus according to claim 23, wherein in a case that the network identification information is used to identify the target network corresponding to the access control information, when an emergency service is initiated through the non-access stratum, the apparatus further comprises:

a second selecting module, configured to: in a case that the access control information indicates that the terminal working in a first target network mode is not supported in obtaining the emergency service, that a network mode of the terminal matches the first target network mode, and that a network selected or registered by the terminal matches a first target network identified by the network identification information, select a second target network through the non-access stratum, wherein access control information corresponding to the second target network indicates that the terminal working in the first target network mode is supported in obtaining the emergency service.

26. The apparatus according to claim 15, further comprising:

a third determining module, configured to: in a case that the network mode in which the terminal works does not match the target network mode or that the access control information indicates that the terminal working in the target network mode is not supported in obtaining the emergency service, determine that the cell is a cell in which the emergency service is not available.

27. The apparatus according to claim 15, further comprising:

a prohibiting module, configured to: in a case that the network mode in which the terminal works does not match the target network mode or that the access control information indicates that the terminal working in the target network mode is not supported in obtaining the emergency service, disable the cell.

28. The apparatus according to any one of claims 15 to 27, wherein the terminal working in the target network mode is in a limited service state.

~~29~~19. A terminal, comprising a processor, a memory, and a program or instructions stored on the memory and capable of running on the processor, wherein when the program or instructions are executed by the processor, the steps of the control method for obtaining an emergency service according to any one of claims 1 to 14 are implemented.

~~30~~20. A readable storage medium, wherein the readable storage medium stores a program or instructions, and when the program or instructions are executed by a processor, the steps of the control method for obtaining an emergency service according to any one of claims 1 to 14 are implemented.

~~31. A chip, wherein the chip comprises a processor and a communication interface, wherein the communication interface is coupled to the processor, and the processor is configured to run a program or instructions to implement the control method for obtaining an emergency service according to any one of claims 1 to 14.~~

~~32. A computer program product, wherein the computer program product is executed by at least one processor to implement the control method for obtaining an emergency service according to any one of claims 1 to 14.~~

~~33. A terminal, configured to implement the control method for obtaining an emergency service according to any one of claims 1 to 14.~~