CLAIMS

1. A service category congestion control method, comprising:

acquiring service request information, the service request information comprising information corresponding to a request initiated by a terminal in a connected mode for establishing a bearer of a target service and the service request information comprising a service category of the target service;

acquiring service category barring information, the service category barring information comprising a barring parameter corresponding to the service category of the target service in the connected mode; and

judging, according to the barring parameter, whether the terminal is to be barred from establishing the bearer of the target service.

2. The method according to claim 1, wherein the barring parameter is a barring probability, and the method further comprises:

acquiring a random number generated by the terminal for the target service; and

wherein the judging, according to the barring parameter, whether the terminal is to be barred from establishing the bearer of the target service comprises:

when the random number is smaller than the barring probability, barring the terminal from establishing the bearer of the target service; or

when the random number is larger than the barring probability, allowing the terminal to establish the bearer of the target service,

wherein the barring probability is lower than or equal to an access barring probability configured for the service category of the target service in an idle mode.

3. The method according to any one of claims 1-2, wherein the method is executed by an Access Stratum (AS) of the terminal, and

wherein the acquiring service request information comprises:

receiving the service request information sent by a Non-Access Stratum (NAS) of the terminal; and

wherein the acquiring service category barring information comprises:

receiving the service category barring information broadcast by an access network device, the service category barring information comprising multiple service categories and barring parameters corresponding to the multiple service categories respectively.

4. The method according to claim 3, further comprising:

when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, sending to the NAS, by the AS, first indication information indicating that establishment of the bearer of the target service is barred; or

when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, sending to the NAS, by the AS, second indication information indicating that establishment of the bearer of the target service is allowed, and initiating, by the AS, a flow of establishing the bearer of the target service to the access network device.

5. The method according to any one of claims 1-2, wherein the method is executed by an access network device,

wherein the acquiring service request information comprises:

receiving the service request information sent by a core network device, the service request information being configured to notify the access network device that the NAS of the terminal sends the service request to the core network device and the service request information comprising the service category of the target service; or

receiving the service request information sent by an AS of the terminal; and

wherein the acquiring service category barring information comprises:

generating the service category barring information, the service category barring information comprising the multiple service categories and the barring parameters corresponding to the multiple service categories respectively.

6. The method according to claim 5, wherein when the service request information received from the core network device, the method further comprises:

when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, sending, by the access network device, third indication information indicating that establishment of the bearer of the target service is barred to the core network device, to enable the core network device to notify the NAS of the terminal of bar establishment of the bearer of the target service; or

when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, sending to the AS of the terminal, by the access network device, fourth indication information indicating that establishment of the bearer of the target service is allowed.

7. The method according to claim 5, wherein when the service request information received from the AS of the terminal, the method further comprises:

when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, sending to the AS of the terminal, by the access network device, fifth indication information indicating that establishment of the bearer of the target service is barred;

or,

when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, sending to a core network device, by the access network device, sixth indication information indicating that establishment of the bearer of the target service is allowed.

8. The method according to any one of claims 1-2, wherein the method is executed by a core network device,

wherein the acquiring service request information comprises:

receiving the service request information sent by the NAS of the terminal; and

wherein the acquiring service category barring information comprises:

receiving the service category barring information sent by the access network device, the service category barring information comprising the multiple service

categories and the barring parameters corresponding to the multiple service categories respectively.

9. The method according to claim 8, further comprising:

when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, sending to the NAS of the terminal, by the core network device, seventh indication information indicating that establishment of the bearer of the target service is barred;

or,

when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, sending to the access network device, by the core network device, eighth indication information indicating that establishment of the bearer of the target service is allowed.

10. The method according to claim 5, comprising:

receiving the service request sent by a Non-Access Stratum (NAS) of the terminal, the service request being a request initiated by the terminal in a connected mode for establishing a bearer of a target service and the service request comprising a service category of the target service; and

sending service request information to the access network device, the service request information being configured to notify the access network device that the NAS of the terminal sends the service request to the core network device and the service request information comprising the service category of the target service.

11. The method according to claim 10, further comprising:

receiving, from the access network device, indication information indicating that the terminal is barred from establishing the bearer of the target service of the service category; and

notifying the terminal that establishment of the bearer of the target service is barred.

12. A service category congestion control device, comprising:

an acquisition module, configured to acquire service request information, the service request information comprising information corresponding to a request for establishing a bearer of a target service initiated by a terminal in a connected mode and the service request information comprising a service category of the target service;

the acquisition module being further configured to acquire service category barring information, the service category barring information comprising a barring parameter corresponding to the service category of the target service in the connected mode; and

a judgment module, configured to judge whether the terminal is barred from establishing the bearer of the target service according to the barring parameter.

13. The device according to claim 12, wherein the barring parameter is a barring probability, and the acquisition module is further configured to:

acquire a random number generated by the terminal for the target service; and

wherein the judgment module is configured to:

when the random number is smaller than the barring probability, bar the terminal from establishing the bearer of the target service, or when the random

number is larger than the barring probability, allow the terminal to establish the bearer of the target service,

wherein the barring probability is lower than or equal to an access barring probability configured for the service category of the target service in an idle mode.

14. The device according to any one of claims 12-13, wherein the device is an Access Stratum (AS) of the terminal or a core network device,

wherein in order to acquire the service request information, the acquisition module is configured to:

receive the service request information sent by a Non-Access Stratum (NAS) of the terminal; and

wherein in order to acquire the service category barring information, the acquisition module is configured to:

receive the service category barring information sent by an access network device, the service category barring information comprising multiple service categories and barring parameters corresponding to the multiple service categories respectively.

15. The device according to claim 14, wherein when the device is the AS of the terminal, the device further comprises:

a sending module, configured to, when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, send, to the NAS, first indication information indicating that establishment of the bearer of the target service is barred; or, when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, send second indication information indicating that the bearer of the target service is allowed to be established to the NAS, and initiate, by the AS, a flow of establishing the bearer of the target service to the access network device.

16. The device according to any one of claims 12-13, wherein the device is an access network device,

wherein in order to acquire the service request information, the acquisition module is configured to:

receive the service request information sent by a core network device or an AS of the terminal, the service request information sent by the core network device being configured to notify the access network device that the NAS of the terminal sends the service request to the core network device and the service request information comprising the service category of the target service; and

wherein in order to acquire the service category barring information, the acquisition module is configured to:

generate the service category barring information, the service category barring information comprising the multiple service categories and the barring parameters corresponding to the multiple service categories respectively.

17. The device according to claim 16, further comprising: a sending module,

wherein the sending module is configured to: when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, send third indication information indicating that establishment of the bearer of the target service is barred to the core network device to enable the core

network device to notify the NAS of the terminal that establishment of the bearer of the target service is barred; or when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, send, to the AS of the terminal, fourth indication information indicating that establishment of the bearer of the target service is allowed;

or,

wherein the sending module is configured to: when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, send, to the AS of the terminal, fifth indication information indicating that establishment of the bearer of the target service is barred; or when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, send, to the core network device, sixth indication information indicating that establishment of the bearer of the target service is allowed.

18. The device according to claim 14, wherein when the device is a core network device, the device further comprises:

a sending module, configured to, when it is determined that the terminal is barred from establishing the bearer of the target service according to the barring parameter, send, to the NAS of the terminal, seventh indication information indicating that establishment of the bearer of the target service is barred; or when it is determined that the terminal is allowed to establish the bearer of the target service according to the barring parameter, send, to the access network device, eighth indication information indicating that establishment of the bearer of the target service is allowed.

19. A service category congestion control terminal, comprising:

a sending module, configured to send service request information, the service request information comprising information corresponding to a request for establishing a bearer of a target service initiated by the terminal in a connected mode and the service request information comprising a service category of the target service; and

a receiving module, configured to receive indication information indicating that the terminal is barred from establishing or allowed to establish the bearer of the target service of the service category.

20. The terminal according to claim 19, wherein the sending module is configured to:

send the service request information to an Access Stratum (AS) through a Non-Access Stratum (NAS); and

wherein the receiving module is configured to:

receive, by the NAS, the indication information sent by the AS of the terminal.