CLAIMS

What is claimed is:

1. A communication method, comprising:

receiving a plurality of pieces of indication information carried in a system information block, wherein the system information block is used to determine an indication manner of a device type of a terminal device, wherein the indication manner is one of indicating the device type of the terminal device via message 3, Msg3, and indicating the device type of the terminal device via message 1, Msgl, and wherein each of the plurality of pieces of indication information is used to indicate an indication manner corresponding to different device types of terminal devices;

indicating the device type of the terminal device using the indication manner.

2. The communication method according to claim 1, wherein the device type of the terminal device includes reduced capability user equipment, REDCAP UE.

3. The communication method according to claim 1 or 2, wherein

the device type of the terminal device is indicated by a correspondence between a transmission resource of Msg1 and a device type; or

the device type of the terminal device is indicated by a specific bit or field in Msg3.

4. The communication method according to claim 3, wherein the transmission resource is time domain resource and/or frequency domain resource and/or code domain resource of random access preamble.

5. The communication method according to any one of claims 1 to 4, wherein the method further comprises:

receiving first information from the network device;

determining access status information and/or a first repetition count set of a first channel based on the first information, wherein the first repetition count set comprises at least one repetition count;

determining, based on the access status information, whether a network is accessed; and/or

determining a first repetition count of the first channel based on the first repetition count set, and transmitting the first channel based on the first repetition count.

6. A communication method, comprising:

sending a plurality of pieces of indication information carried in a system information block,

wherein the system information block is used to determine an indication manner of a device type of a terminal device, wherein the indication manner is one of indicating the device type of the terminal device via message 3, Msg3, and indicating the device type of the terminal device via message 1, Msgl, and wherein each of the plurality of pieces of indication information is used to indicate an indication manner corresponding to different device types of terminal devices;

determining the device type of the terminal device using the indication manner.

7. The communication method according to claim 6, wherein the device type of the terminal device includes reduced capability user equipment, REDCAP UE.

8. The communication method according to any one of claim 5 to 7, wherein

the device type of the terminal device is indicated by a correspondence between a transmission resource of Msg1 and a device type; or

the device type of the terminal device is indicated by a specific bit or field in Msg3.

9. The communication method according to claim 8, wherein the transmission resource is time domain resource and/or frequency domain resource and/or code domain resource of random access preamble.

10. The communication method according to any one of claims 6 to 9, wherein the method further comprises:

determining first feature information of the terminal device; and

sending first information to the terminal device based on the first feature information, and transmitting a first channel based on a first repetition count, wherein the first information indicates access status information and/or a first repetition count set of the first channel, the first repetition count set comprises at least one repetition count, and the first repetition count is determined based on the first feature information.

11. A communication apparatus, comprising:

at least one processor; and

one or more memories coupled to the at least one processor and storing programming instructions for execution by the at least one processor to cause the apparatus to:

receive a plurality of pieces of indication information carried in a system information block, wherein the system information block is used to determine an indication manner of a device type of a terminal device, wherein the indication manner is one of indicating the device type of the terminal device via message 3, Msg3, and indicating the device type of the terminal device via

message 1, Msgl, and wherein each of the plurality of pieces of indication information is used to indicate an indication manner corresponding to different device types of terminal devices;

indicate the device type of the terminal device using the indication manner.

12. The communication apparatus according to claim 11, wherein the device type of the terminal device includes reduced capability user equipment, REDCAP UE.

13. The communication apparatus according to claim 11 or 12, wherein

the device type of the terminal device is indicated by a correspondence between a transmission resource of Msg1 and a device type; or

the device type of the terminal device is indicated by a specific bit or field in Msg3.

14. The communication apparatus according to claim 13, wherein the transmission resource is time domain resource and/or frequency domain resource and/or code domain resource of random access preamble.

15. A communication apparatus, comprising:

at least one processor; and

one or more memories coupled to the at least one processor and storing programming instructions for execution by the at least one processor to cause the apparatus to:

send a plurality of pieces of indication information carried in a system information block, wherein the system information block is used to determine an indication manner of a device type of a terminal device, wherein the indication manner is one of indicating the device type of the terminal device via message 3, Msg3, and indicating the device type of the terminal device via message 1, Msgl, and wherein each of the plurality of pieces of indication information is used to indicate an indication manner corresponding to different device types of terminal devices;

determine the device type of the terminal device using the indication manner.

16. The communication apparatus according to claim 15, wherein the device type of the terminal device includes reduced capability user equipment, REDCAP UE.

17. The communication apparatus according to claim 15, wherein

the device type of the terminal device is indicated by a correspondence between a transmission resource of Msg1 and a device type; or

the device type of the terminal device is indicated by a specific bit or field in Msg3.

18. The communication apparatus according to claim 17, wherein the transmission resource is time domain resource and/or frequency domain resource and/or code domain resource of random

access preamble.

19. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 10.

20. A computer program product, wherein when the computer program product is executed on a computer, the computer performs the method according to any one of claims 1 to 10.