

and

determining, by the first device, the first basic parameter set according to a second correspondence, the second probability value, and a rank indicated by the rank information of the terminal device, wherein the second correspondence is used to indicate a correspondence between at least one terminal device rank, at least one probability range, and at least one basic parameter set.

8. The method according to claim 4 or 5, wherein the determining, by the first device, the first basic parameter set comprises:

determining, by the first device, the first basic parameter set according to a tenth correspondence and the frequency band of the resource used when transmitting the first message or the frequency band supported by the terminal device;

wherein the tenth correspondence is used to indicate a correspondence between at least one frequency band and at least one basic parameter set.

9. A device for random access, comprising:

a determining unit, configured to determine a first basic parameter set used by a first message transmitted during a random access procedure; and

a transceiving unit, configured to transmit, using the first basic parameter set, the first message to a second device, or receive, using the first basic parameter set, the first message transmitted by the second device.

10. The device according to claim 9, wherein the first message used for random access is a message transmitted during a 4-step random access procedure, or a message transmitted during a 2-step random access procedure.

11. The device according to claim 9 or 10, wherein the device is a terminal device, and the second device is an access network device; or

the device is an access network device, and the second device is a terminal device.

12. The device according to claim 11, wherein the determining unit is further configured to:

determine the first basic parameter set according to at least one of following information:

pre-configured multiple basic parameter sets;

a random function;

rank information of the terminal device;

a quality value of a current link between the terminal device and the access network device;

information on a location where the terminal device currently is;

time required for performing the random access procedure;

information on a service to be transmitted of the terminal device;

a reason for triggering the random access procedure;

a resource used when transmitting the first message;

a frequency band of a frequency domain resource used when transmitting the first message;

a basic parameter set supported by the terminal device;

a frequency band supported by the terminal device;

a random access mode used when performing the random access procedure;

information for indicating a basic parameter set carried in a historical message prior to the first message; and

a basic parameter set used by the historical message prior to the first message.

13. The device according to claim 12, wherein the determining unit is further configured to:

select the first basic parameter set from the pre-configured multiple basic parameter sets.

14. The device according to claim 12 or 13, wherein the determining unit is further configured to:

acquire a first probability value based on the random function; and

determine the first basic parameter set according to a first correspondence and the first probability value, wherein the first correspondence is used to indicate a correspondence between at least one probability range and at least one basic parameter set.

15. The device according to claim 12 or 13, wherein the determining unit is further configured to:

acquire a second probability value based on the random function; and

determine the first basic parameter set according to a second correspondence, the second probability value, and a rank indicated by the rank information of the terminal device, wherein the second correspondence is used to indicate a correspondence between at least one terminal device rank, at least one probability range, and at least one basic parameter set.

16. The device according to claim 12 or 13, wherein the determining unit is further configured to:

determine the first basic parameter set according to a tenth correspondence and the frequency band of the resource used when transmitting the first message or the frequency band supported by the terminal device;

wherein the tenth correspondence is used to indicate a correspondence between at least one frequency band and at least one basic parameter set.

17. A device for random access, comprising a memory, a processor and a transceiver;

the memory is configured to store a program code;

the processor is configured to execute the program code stored in the memory and control the transceiver to communicate externally; and

when the program code is executed, the processor is configured to perform the method

for random access according to any one of claims 1-8.