WHAT IS CLAIMED IS:

1. A method for determining a threshold in contention-free random access (CFRA), performed by a user equipment (UE), the method comprising:

in response to the UE triggering the CFRA and determining that a reference signal received power (RSRP) threshold is not configured in a CFRA configuration, determining a contention-based random access (CBRA) configuration corresponding to a target version, the CBRA configuration corresponding to the target version comprising at least one of a CBRA configuration corresponding to a first version or a CBRA configuration corresponding to a second version, wherein the first version is earlier than the second version; and

determining an RSRP threshold in CFRA according to an RSRP threshold in the CBRA configuration corresponding to the target version.

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

determining that the RSRP threshold is configured in the CFRA configuration; and

determining the RSRP threshold in CFRA according to an RSRP threshold in the CFRA configuration.

3. The method according to claim 1 or 2, wherein the first version comprises at least one version, and one version in the first version corresponds to at least one CBRA configuration; the second version comprises at least one version, and one version in the second version corresponds to at least one CBRA configuration.

4. The method according to any one of claims 1 to 3, wherein the RSRP threshold comprises at least one of:

a supplementary uplink (SUL) selection threshold; or

a synchronization signal block (SSB) selection threshold.

5. The method according to any one of claims 1 to 4, wherein the CBRA configuration comprises at least one of:

a 2-step CBRA configuration; or

a 4-step CBRA configuration.

6. The method according to any one of claims 1 to 5, wherein a relationship between the CBRA configuration corresponding to the first version and the CBRA configuration corresponding to the second version comprises at least one of:

the CBRA configuration corresponding to the second version being independently configured with the same RSRP threshold as configured in the CBRA configuration corresponding to the first version;

the CBRA configuration corresponding to the second version being independently configured with the RSRP threshold different from that configured in the CBRA configuration corresponding to the first version; or

the CBRA configuration corresponding to the second version being not configured with the RSRP threshold but reusing the RSRP threshold configured in the CBRA configuration corresponding to the first version.

7. The method according to any one of claims 1 to 6, further comprising:

acquiring at least one of a CBRA configuration corresponding to the first version or a CBRA configuration corresponding to the second version through a system message.

8. The method according to any one of claims 1 to 7, wherein determining the target version comprises at least one of:

determining the target version according to an indication of the network side device;

determining the target version according to a protocol agreement;

determining the target version according to a UE capability; or

determining the target version by the UE autonomously.

9. The method according to any one of claims 1 to 8, wherein determining the target version comprises at least one of:

determining the first version as the target version;

determining the second version as the target version; or

determining the first version and the second version as the target version.

10. The method according to any one of claims 3 to 9, wherein determining the RSRP threshold in CFRA according to the RSRP threshold in the CBRA configuration corresponding to the target version comprises:

determining the target version corresponding to one CBRA configuration, and determining directly the RSRP threshold in the CBRA configuration corresponding to the target version as the RSRP threshold in CFRA; and

determining the target version corresponding to more than one CBRA configuration, and determining the RSRP threshold in CFRA according to RSRP thresholds in the more than one CBRA configuration corresponding to the target version.

11. The method according to claim 10, wherein determining the RSRP threshold in CFRA according to RSRP thresholds in the more than one CBRA configuration corresponding to the target version comprises at least one of:

determining the RSRP threshold in CFRA according to an indication of the network side device;

determining the RSRP threshold in CFRA according to a UE capability;

determining the RSRP threshold in the CBRA configuration corresponding to the first version as the RSRP threshold in CFRA;

determining the RSRP threshold in CFRA according to a predefined rule; or

determining the RSRP threshold in CFRA by the UE autonomously.

12. The method according to claim 11, wherein the predefined rule comprises at least one of:

determining a maximum RSRP threshold as the target RSRP threshold; or

determining a minimum RSRP threshold as the target RSRP threshold.

13. The method according to any one of claims 1 to 12, wherein the CFRA comprises at

least one of:

CFRA triggered according to a beam failure recovery (BFR);

CFRA triggered according to a system information (SI) request; or

CFRA triggered according to a handover.

14. The method according to any one of claims 1 to 13, wherein a type of the CFRA comprises at least one of:

2-step CFRA; or

4-step CFRA.

15. The method according to any one of claims 1 to 14, further comprising:

acquiring a CFRA configuration sent by a network side device.

16. A method for determining a threshold in contention-free random access (CFRA), performed by a network side device, the method comprising:

sending a contention-based random access (CBRA) configuration to a user equipment (UE), the CBRA configuration comprising at least one of a CBRA configuration corresponding to a first version or a CBRA configuration corresponding to a second version, the first version being earlier than the second version; and

determining the UE triggering the CFRA and no reference signal received power (RSRP) threshold configured in a CFRA configuration; and

indicating a target version to the UE, the target version comprising at least one of the first version or the second version.

17. A communication device, comprising a processor and a memory, wherein a computer program is stored in the memory, and the processor is configured to execute the computer program stored in the memory to cause the device to perform the method according to any one of claims 1 to 15.

18. A communication device, comprising a processor and a memory, wherein a computer

program is stored in the memory, and the processor is configured to execute the computer program stored in the memory to cause the device to perform the method according to claim 16.

19. A computer-readable storage medium for storing instructions that, when executed, cause the method according to any one of claims 1 to 15 to be implemented.

20. A computer-readable storage medium for storing instructions that, when executed, cause the method according to claim 16 to be implemented.