

CLAIMS

1. A method for determining a resource, performed by a communication system comprising a terminal and a network device, the method comprising:

sending, by the network device, first configuration information to the terminal, wherein the first configuration information indicates at least one contention-based random access (CBRA) configuration; and

determining, by the terminal, a target available random access channel occasion (RO) set according to the first configuration information;

wherein determining, by the terminal, the target available RO set comprises:

in response to determining that the target available RO set is not configured in the CBRA configuration, determining, by the terminal, a second available RO set, and determining, by the terminal, the target available RO set according to the second available RO set.

2. The method of claim 1, further comprising at least one of:

determining, by the terminal, the target available RO set according to a first shared RO resource and the second available RO set, wherein the first shared RO resource is configured in second configuration information from the network device; or

determining, by the terminal, the second available RO set as the target available RO set, wherein the first shared RO resource is not configured in the second configuration information from the network device.

3. The method of claim 1 or 2, further comprising:

in response to determining that the target available RO set is configured in the CBRA configuration, determining, by the terminal, a first available RO set configured in the CBRA configuration as the target available RO set.

4. The method of any one of claims 1 to 3, wherein the CBRA configuration is a CBRA configuration introduced in a first version comprising at least one of a 4-step CBRA configuration introduced in the first version or a 2-step CBRA configuration introduced in the first version, wherein the first version is Release 17.

5. The method of any one of claims 1 to 4, wherein the second available RO set is at least one of: an available RO set configured in the at least one CBRA configuration introduced in a first version, or an available RO set configured in at least one CBRA configuration introduced in a second version, wherein the first version is Release 17, and the second version is at least one of Release 15 or Release 16.

6. The method of any one of claims 1 to 5, further comprising:

determining, by the terminal, at least one of a target shared RO resource or a target preamble set according to the first configuration information.

7. The method of claim 6, wherein determining the target shared RO resource comprises at least one of:

determining that a third available RO set is configured in the CBRA configuration, and determining the target shared RO resource according to the target available RO set and the third available RO set;

determining that a second shared RO resource is configured in the CBRA configuration, and determining the target shared RO resource according to the second shared RO resource; or

determining that the second shared RO resource is not configured in the CBRA configuration, and determining that the target shared RO resource is null.

8. The method of claim 6 or 7, wherein the CBRA configuration is a CBRA configuration introduced in a first version, the CBRA configuration introduced in the first version is a common CBRA configuration of a plurality of different features or combinations of features introduced in the first version or a specific CBRA configuration of a plurality of different features or combinations of features introduced in the first version, and wherein the common CBRA configuration comprises at least one of a configuration of the target shared RO resource or a configuration of the target available RO set.

9. The method of claim 8, further comprising:

determining a target available RO set corresponding to the features or the combinations of features according to a third available RO set corresponding to the features or the combinations of features, wherein the CBRA configuration introduced in the first version is the common CBRA

configuration.

10. The method of any one of claims 6 to 9, wherein determining the target preamble set comprises:

determining that, in the CBRA configuration introduced in a first version, a number of preambles of a CBRA configuration having a shared RO resource with the CBRA configuration introduced in the first version is configured, wherein the number of preambles in the CBRA configuration having the shared RO resource comprises at least one of:

a number of preambles of a 2-step CBRA configuration introduced in a second version;
a number of preambles of a 4-step CBRA configuration introduced in the second version;
a number of preambles of a 2-step CBRA configuration introduced in the first version;

or

a number of preambles of a 4-step CBRA configuration introduced in the first version;

and

determining the target preamble set in the target shared RO resource according to the number of preambles in the CBRA configuration.

11. A method for determining a resource, performed by a terminal, comprising:
receiving first configuration information from a network device, wherein the first configuration information indicates at least one contention-based random access (CBRA) configuration; and
determining a target available random access channel occasion (RO) set according to the first configuration information;

wherein determining the target available RO set comprises:

in response to determining that the target available RO set is not configured in the CBRA configuration, determining a second available RO set, and determining the target available RO set according to the second available RO set.

12. The method of claim 11, further comprising at least one of:
determining the target available RO set according to a first shared RO resource and the second available RO set, wherein the first shared RO resource is configured in second configuration information from the network device; or

determining the second available RO set as the target available RO set, wherein the first shared

RO resource is not configured in the second configuration information from the network device.

13. The method of claim 11 or 12, further comprising:

in response to determining that the target available RO set is configured in the CBRA configuration, determining a first available RO set configured in the CBRA configuration as the target available RO set.

14. The method of any one of claims 11 to 13, further comprising at least one of:

the CBRA configuration being a CBRA configuration introduced in a first version comprising at least one of: a 4-step CBRA configuration introduced in the first version or a 2-step CBRA configuration introduced in the first version, wherein the first version is Release 17; or

the second available RO set being at least one of: an available RO set configured in the at least one CBRA configuration introduced in a first version, or an available RO set configured in at least one CBRA configuration introduced in a second version, wherein the first version is Release 17, and the second version is at least one of Release 15 or Release 16.

15. The method of any one of claims 11 to 14, further comprising:

determining at least one of a target shared RO resource or a target preamble set according to the first configuration information.

16. The method of claim 15, wherein determining the target shared RO resource comprises at least one of:

determining that a third available RO set is configured in the CBRA configuration, and determining the target shared RO resource according to the target available RO set and the third available RO set;

determining that a second shared RO resource is configured in the CBRA configuration, and determining the target shared RO resource according to the second shared RO resource; or

determining that the second shared RO resource is not configured in the CBRA configuration, and determining that the target shared RO resource is null.

17. The method of claim 15 or 16, wherein the CBRA configuration is a CBRA configuration introduced in a first version, the CBRA configuration introduced in the first version is a common

CBRA configuration of a plurality of different features or combinations of features introduced in the first version or a specific CBRA configuration of a plurality of different features or combinations of features introduced in the first version, and wherein the common CBRA configuration comprises at least one of a configuration of the target shared RO resource or a configuration of the target available RO set.

18. The method of claim 17, further comprising:

determining a target available RO set corresponding to the features or the combinations of features according to a third available RO set corresponding to the features or the combinations of features, wherein the CBRA configuration introduced in the first version is the common CBRA configuration.

19. The method of any one of claims 15 to 18, wherein determining the target preamble set comprises:

determining that, in the CBRA configuration introduced in a first version, a number of preambles of a CBRA configuration having a shared RO resource with the CBRA configuration introduced in the first version is configured, wherein the number of preambles in the CBRA configuration having the shared RO resource comprises at least one of:

- a number of preambles of a 2-step CBRA configuration introduced in a second version;
- a number of preambles of a 4-step CBRA configuration introduced in the second version;
- a number of preambles of a 2-step CBRA configuration introduced in the first version;

or

- a number of preambles of a 4-step CBRA configuration introduced in the first version;

and

determining the target preamble set in the target shared RO resource according to the number of preambles in the CBRA configuration.

20. A terminal, comprising:

a processor; and

a memory for storing a computer program executable by the processor;

wherein the processor is configured to perform:

receiving first configuration information from a network device, wherein the first configuration

information indicates at least one contention-based random access (CBRA) configuration; and

determining a target available random access channel occasion (RO) set according to the first configuration information;

wherein determining the target available RO set comprises:

in response to determining that the target available RO set is not configured in the CBRA configuration, determining a second available RO set, and determining the target available RO set according to the second available RO set.