

CLAIMS

5 1. A method for resource selection, comprising:

determining, by a terminal device, that a proportion of a number of available resources in a candidate resource set to a total number of resources in the candidate resource set is lower than a preset proportion, or the number of the available resources in the candidate resource set is smaller than a preset value;

10 determining, by the terminal device, a first available resource set in the candidate resource set; and

determining, by the terminal device, a resource for data transmission in the first available resource set.

15 2. The method of claim 1, wherein determining, by the terminal device, the first available resource set in the candidate resource set comprises:

in the case that the number of the available resources in the candidate resource set is not zero, determining, by the terminal device, a set of the available resources in the candidate resource set as the first available resource set.

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3. The method of claim 2, wherein determining, by the terminal device, the resource for data transmission in the first available resource set comprises:

randomly selecting, by the terminal device, one or more resources from the first available resource set as resources for data transmission.

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4. The method of claim 1, wherein determining, by the terminal device, the first available resource set in the candidate resource set comprises:

determining, by the terminal device, a first proportion according to a first parameter, wherein the first proportion is used to indicate a proportion of a number of available resources that need to be selected to the total number of the resources in the candidate resource set; and

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determining, by the terminal device, the first available resource set in the candidate resource set according to the first proportion.

5. The method of claim 4, wherein the first parameter comprises at least one of: a transmission delay of a service or duration of a resource selection window in a time domain, and wherein the resource selection window comprises all the resources in the candidate resource set.

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6. The method of claim 5, wherein the first parameter is the transmission delay of the service, and determining, by the terminal device, the first proportion according to the first parameter comprises:

10 determining, by the terminal device, the first proportion according to a transmission delay of a present service and a first correspondence, wherein the first correspondence is a correspondence between each of a plurality of transmission delays and a respective one of a plurality of proportions, and each of the plurality of proportions is to indicate the proportion of the number of the available resources that need to be selected to the total number of the resources in the candidate resource set.

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7. The method of claim 6, wherein the first correspondence is configured for the terminal device by a network device, or the first correspondence is pre-configured in the terminal device.

20 8. The method of any one of claims 4-7, further comprising:

in the case that the proportion of the number of the available resources in the candidate resource set to the total number of the resources in the candidate resource set is lower than the first proportion, sending, by the terminal device, first indication information to a network device, wherein the first indication information is to indicate at least one of:

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the proportion of the number of the available resources in the candidate resource set to the total number of the resources in the candidate resource set being lower than the first proportion, the total number of the resources in the candidate resource set or the number of the available resources in the candidate resource set.

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9. The method of any one of claims 4-7, wherein determining, by the terminal device, the first available resource set in the candidate resource set according to the first proportion comprises:

in the case that the proportion of the number of the available resources in the candidate resource set to the total number of the resources in the candidate resource set is lower than the first proportion, regulating, by the terminal device, transmission parameters in at least one of the following manners:

5 reducing a number of Hybrid Automatic Repeat reQuest (HARQ) processes, reducing a number of transmissions of a data packet in each HARQ process, improving a Modulation and Coding Scheme (MCS) level or reducing a number of Physical Resource Blocks (PRBs) for each data packet; and

10 determining, by the terminal device, the first available resource set in the candidate resource set according to the regulated transmission parameter.

10. The method of any one of claims 4-7, wherein determining, by the terminal device, the first available resource set in the candidate resource set according to the first proportion comprises:

15 in the case that the proportion of the number of the available resources in the candidate resource set to the total number of the resources in the candidate resource set is more than or equal to the first proportion, determining the first available resource set in the available resources, wherein a proportion of a number of resources in the first available resource set to the total number of the resources in the candidate resource set
20 is the first proportion.

11. The method of claim 1, wherein determining, by the terminal device, the first available resource set in the candidate resource set comprises:

25 in the case that the number of the available resources in the candidate resource set is zero, determining, by the terminal device, the candidate resource set as the first available resource set.

12. A device for resource selection, comprising:

30 a determination unit, configured to determine that a proportion of a number of available resources in a candidate resource set to a total number of resources in the candidate resource set is lower than a preset proportion, or the number of the available resources in the candidate resource set is smaller than a preset value, determine a first available resource set in the candidate resource set and determine a resource for data

transmission in the first available resource set.

13. The device of claim 12, wherein the determination module is specifically configured to:

5 in the case that the number of the available resources in the candidate resource set is not zero, determine a set of the available resources in the candidate resource set as the first available resource set.

10 14. The device of claim 13, wherein the determination module is specifically configured to:

 randomly select one or more resources from the first available resource set as resources for data transmission.

15 15. The device of claim 12, wherein the determination module is specifically configured to:

 determine a first value according to a first parameter, wherein the first value is to indicate a number of available resources that need to be selected in the candidate resource set; and

20 determine the first available resource set in the candidate resource set according to the first value.

25 16. The device of claim 15, wherein the first parameter comprises at least one of: a transmission delay of a service or duration of a resource selection window in a time domain, and wherein the resource selection window comprises all the resources in the candidate resource set.

17. The device of claim 16, wherein the first parameter is the transmission delay of the service, and the determination module is specifically configured to:

30 determine the first value according to a transmission delay of a present service and a fifth correspondence, wherein the fifth correspondence is a correspondence between each of a plurality of transmission delays and a respective one of a plurality of values, and each of the plurality of values is to indicate the number of the available resources that need to be selected.

18. The device of claim 17, wherein the fifth correspondence is configured by a network device, or the fifth correspondence is pre-configured.

5 19. The device of any one of claims 15-18, further comprising:

a communication module, configured to, under the condition that the number of the available resources in the candidate resource set is smaller than the first value, send second indication information to a network device, wherein the second indication information is to indicate at least one of:

10 the number of the available resources in the candidate resource set being smaller than the first value, the total number of the resources in the candidate resource set or the number of the available resources in the candidate resource set.

20. The device of any one of claims 15-18, further comprising:

15 a regulation module, configured to, under the condition that the number of the available resources in the candidate resource set is smaller than the first value, regulate transmission parameters in at least one of the following manners:

reducing a number of Hybrid Automatic Repeat reQuest (HARQ) processes, reducing a number of transmissions of a data packet in each HARQ process, improving
20 a Modulation and Coding Scheme (MCS) level or reducing a number of Physical Resource Blocks (PRBs) for each data packet, wherein

the determination module is specifically configured to:

determine the first available resource set in the candidate resource set according to the regulated transmission parameter.

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