WHAT IS CLAIMED IS:

1. A frequency hopping configuration method, wherein the method is applied in a base station, and the base station configures at least one bandwidth part (BWP) for a terminal, the method comprising:

configuring a frequency hopping rule for each configured BWP;

in response to instructing the terminal to perform uplink transmission frequency hopping, determining, according to the configured frequency hopping rule, a frequency hopping rule corresponding to a BWP with which the terminal being configured currently, wherein the corresponding frequency hopping rule comprises a specified frequency hopping offset; and

sending the corresponding frequency hopping rule to the terminal, such that the terminal determines, according to the corresponding frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping, and performs uplink transmission at the second frequency domain resource position.

2. The method according to claim 1, wherein the configuring a frequency hopping rule for each configured BWP comprises:

configuring one or more different frequency hopping subband schemes for each configured BWP, each frequency hopping subband scheme comprising at least one frequency hopping subband, and the frequency hopping subbands in the same BWP are a section of continuous frequency resources in the BWP.

3. The method according to claim 2, wherein the determining, according to the configured frequency hopping rule, a frequency hopping rule corresponding to a BWP with which the terminal being configured currently, comprises:

in response to one frequency hopping subband scheme is configured for the BWP with which the terminal being configured currently, determining the frequency hopping subband scheme as the frequency hopping rule corresponding to the BWP with which the terminal being configured currently;

in response to a plurality of frequency hopping subband schemes are configured

for the BWP with which the terminal being configured currently, selecting one frequency hopping subband scheme from the plurality of frequency hopping subband schemes, and determining the selected frequency hopping subband scheme as the frequency hopping rule corresponding to the BWP with which the terminal being configured currently.

4. The method according to claim 3, wherein the sending the corresponding frequency hopping rule to the terminal comprises:

generating first indication information, wherein the first indication information comprises the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently; and

sending the first indication information to the terminal, such that the terminal obtains the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently according to the first indication information.

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

generating frequency hopping configuration information, wherein the frequency hopping configuration information comprises the one or more different frequency hopping subband schemes configured by the base station for each configured BWP; and

sending the frequency hopping configuration information to the terminal, such that the terminal obtains, according to the frequency hopping configuration information, the one or more different frequency hopping subband schemes configured by the base station for each configured BWP.

6. The method according to claim 5, wherein the sending the corresponding frequency hopping rule to the terminal comprises:

generating second indication information, wherein the second indication information comprises a frequency hopping subband scheme identifier, and the frequency hopping subband scheme identifier is an identifier of the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently; and

sending the second indication information to the terminal, such that the terminal obtains the frequency hopping subband scheme identifier according to the second indication information, and determines, according to the frequency hopping subband scheme identifier, the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently.

7. The method according to claim 1, wherein the configuring a frequency hopping rule for each configured BWP, comprises:

configuring one or more different specified frequency hopping offsets for each configured BWP.

8. The method according to claim 7, wherein the determining, according to the configured frequency hopping rule, a frequency hopping rule corresponding to a BWP with which the terminal being configured currently, comprises:

in response to one specified frequency hopping offset is configured for the BWP with which the terminal being configured currently, determining the frequency hopping offset as the frequency hopping rule corresponding to the BWP with which the terminal being configured currently; and

in response to a plurality of specified frequency hopping offsets are configured for the BWP with which the terminal being configured currently, selecting one specific frequency hopping offset from the plurality of specified frequency hopping offsets, and determining the selected frequency hopping subband scheme as the frequency hopping rule corresponding to the BWP with which the terminal being configured currently.

9. The method according to claim 8, wherein the sending the corresponding frequency hopping rule to the terminal, comprises:

generating third indication information, wherein the third indication information comprises the specified frequency hopping offset corresponding to the BWP with which the terminal being configured currently; and

sending the third indication information to the terminal, such that the terminal obtains, according to the third indication information, the specified frequency hopping

offset corresponding to the BWP with which the terminal being configured currently.

10. A frequency hopping configuration method, wherein the method is applied in a terminal, and the terminal is configured, by a base station, at least one bandwidth part (BWP), the method comprising:

receiving a frequency hopping rule sent by the base station, wherein the frequency hopping rule is a frequency hopping rule configured by the base station for a BWP with which the terminal being configured currently;

in response to performing uplink transmission frequency hopping, determining, according to the frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping; and

performing uplink transmission at the second frequency domain resource position.

11. The method according to claim 10, wherein the receiving a frequency hopping rule sent by the base station, comprises:

receiving first indication information sent by the base station, wherein the first indication information comprises a frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently, the frequency hopping subband scheme comprises at least one frequency hopping subband, and the frequency hopping subbands in the same BWP are a section of continuous frequency resources in the BWP; and

obtaining the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently according to the first indication information.

12. The method according to claim 10, further comprising:

receiving frequency hopping configuration information sent by the base station, wherein the frequency hopping configuration information comprises one or more different frequency hopping subband schemes configured by the base station for each configured BWP, each of the frequency hopping subband schemes comprises at least

one frequency hopping subband, and the frequency hopping subbands in the same BWP are a section of continuous frequency resources in the BWP; and

obtaining, according to the frequency hopping configuration information, the one or more different frequency hopping subband schemes configured by the base station for each configured BWP.

13. The method according to claim 12, wherein the receiving a frequency hopping rule sent by the base station, comprises:

receiving second indication information sent by the base station, wherein the second indication information comprises a frequency hopping subband scheme identifier, and the frequency hopping subband scheme identifier is an identifier of the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently;

obtaining the frequency hopping subband scheme identifier according to the second indication information; and

determining, according to the frequency hopping subband scheme identifier, the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently.

14. The method according to claim 11 or 13, wherein the determining the second frequency domain resource position after the frequency hopping according to the frequency hopping rule and the first frequency domain resource position before the frequency hopping, comprises:

determining a first frequency hopping subband corresponding to the first frequency domain resource position according to the frequency hopping subband scheme corresponding to the BWP with which the terminal being configured currently; and

calculating the second frequency domain resource position according to the first frequency hopping subband and the first frequency domain resource position.

15. The method according to claim 14, wherein the calculating the second frequency domain resource position according to the first frequency hopping subband

and the first frequency domain resource position, comprises:

calculating a mirror position of the first frequency domain resource position in the first frequency hopping subband, the mirror position being the second frequency domain resource position; or

using the first frequency hopping subband as a transmission bandwidth for uplink data transmission, and calculating the second frequency domain resource position according to information in uplink scheduling signaling sent by the base station.

16. The method according to claim 10, wherein the receiving a frequency hopping rule sent by the base station, comprises:

receiving third indication information sent by the base station, wherein the third indication information comprises a specified frequency hopping offset corresponding to the BWP with which the terminal being configured currently; and

obtaining, according to the third indication information, the specified frequency hopping offset corresponding to the BWP with which the terminal being configured currently.

17. The method according to claim 16, wherein the determining the second frequency domain resource position after the frequency hopping according to the frequency hopping rule and the first frequency domain resource position before the frequency hopping, comprises:

determining the second frequency domain resource position according to the specified frequency hopping offset corresponding to the BWP with which the terminal being configured currently and the first frequency domain resource position.

18. A frequency hopping configuration device, wherein the device is applied in a base station, and the base station configures at least one bandwidth part (BWP) for a terminal, the device comprising:

a configuration module configured to configure a frequency hopping rule for each configured BWP;

a frequency hopping rule determining module configured to, in response to

instructing the terminal to perform uplink transmission frequency hopping, determine, according to the configured frequency hopping rule, a frequency hopping rule corresponding to a BWP with which the terminal being configured currently, wherein the corresponding frequency hopping rule comprises a specified frequency hopping offset; and

a first sending module configured to send the corresponding frequency hopping rule to the terminal, such that the terminal determines, according to the corresponding frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping, and perform uplink transmission at the second frequency domain resource position.

19. A frequency hopping configuration device, wherein the device is applied in a terminal, and the terminal is configured, by a base station, at least one bandwidth part (BWP), the device comprising:

a first receiving module configured to receive a frequency hopping rule sent by the base station, wherein the frequency hopping rule is a frequency hopping rule configured by the base station for a BWP with which the terminal being configured currently;

a resource position determining module configured to, in response to performing uplink transmission frequency hopping, determine, according to the frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping; and

an uplink transmission module configured to perform uplink transmission at the second frequency domain resource position.

20. A frequency hopping configuration device, wherein the device is applied in a base station, the base station configures at least one bandwidth part (BWP) for a terminal, the device comprising:

a processor; and

memory storing instructions executable by the processor;

wherein the processor is configured to:

configure a frequency hopping rule for each configured BWP;

in response to instructing the terminal to perform uplink transmission frequency hopping, determine, according to the configured frequency hopping rule, a frequency hopping rule corresponding to a BWP with which the terminal being configured currently, wherein the corresponding frequency hopping rule comprises a specified frequency hopping offset; and

send the corresponding frequency hopping rule to the terminal, such that the terminal determines, according to the corresponding frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping, and performs uplink transmission at the second frequency domain resource position.

21. A frequency hopping configuration device, wherein the device is applied in a terminal, and the terminal is configured, by a base station, at least one bandwidth part (BWP), the device comprising:

a processor; and

memory storing instructions executable by the processor;

wherein the processor is configured to:

receive a frequency hopping rule sent by the base station, wherein the frequency hopping rule is a frequency hopping rule configured by the base station for a BWP with which the terminal being configured currently;

in response to performing uplink transmission frequency hopping, determine, according to the frequency hopping rule and a first frequency domain resource position before the frequency hopping, a second frequency domain resource position after the frequency hopping; and

perform uplink transmission at the second frequency domain resource position.