CLAIMS

1. A method for transmitting system information, comprising:

acquiring, by a base Station (ST), at least two radio configuration parameter sets, each of the at least two radio configuration parameter sets comprising at least one radio configuration parameter, and any two radio configuration parameter sets of the at least two radio configuration parameter sets being different from each other in terms of at least part of a value of the at least one radio configuration parameter;

determining, by the base ST, at least one of the at least two radio configuration parameter sets as at least one first radio configuration parameter set for transmitting first system information during a first time period; and

sending, by the base ST, the first system information during the first time period via at least one first frequency-domain resource based on the at least one first radio configuration parameter set, the at least one first frequency-domain resource and the at least one first radio configuration parameter set having one-to-one correspondences during the first time period, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies,

wherein the radio configuration parameter comprises at least one of: a subcarrier spacing, an Orthogonal Frequency Division Multiplexing (OFDM) symbol length, a Cyclic Prefix (CP) length, a total number of OFDM symbols, a radio frame length and a subframe length.

2. The method of claim 1, further comprising:

determining, by the base ST, at least one of the at least two radio configuration parameter sets as at least one second radio configuration parameter set for transmitting the first system information during a second time period; and

sending, by the base ST, the first system information during the second time period via at least one second frequency-domain resource based on the at least one second radio configuration parameter set, the at least one second frequency-domain resource and the at least one second radio configuration parameter set having one-to-one correspondences during the second time period, and any two frequency-domain resources of the at least one second frequency-domain resource corresponding to different frequencies.

3. The method of claim 1 or 2, wherein the determining, by the base ST, at least one of the at least two radio configuration parameter sets as at least one first radio configuration parameter set for transmitting first system information during a first time period comprises:

determining, by the base ST, at least one of the at least two radio configuration parameter sets as at least one first radio configuration parameter set for transmitting first system information during the first time period according to at least one of: a carrier frequency band to which the frequency-domain resource corresponding to each of the at least one first radio configuration parameter set belongs and a carrier frequency-domain width, a geographical position and surrounding environment of the base ST, a transmission power at which the first system information is sent or an antenna form for sending of the first system information.

4. The method of any one of claims 1-3, wherein the first system information comprises first indication information, and the first indication information indicates at least one of a time-frequency resource or radio configuration parameter set used by the base ST for sending second system information, and wherein the first system information comprises a Master Information Block (MIB), and the second system information comprises at least one System Information Block (SIB).

5. The method of any one of claims 1-4, wherein the base ST is a base ST for a first cell, a terminal is a terminal located in the first cell, and the method further comprises:

sending, by the base ST, second indication information to the terminal, the second indication information indicating at least one of a time-frequency resource or radio configuration parameter set used by the terminal for receiving third system information, the third system information being system information for a second cell and the second cell being adjacent to the first cell.

6. The method of claim 5, further comprising:

sending, by the base ST, third indication information to the terminal, the third indication information indicating an offset between a timing of the first cell and a timing of the second cell.

7. A method for transmitting system information, comprising:

acquiring or pre-storing, by a terminal, at least two radio configuration parameter sets, each of the at least two radio configuration parameter sets comprising at least one radio configuration parameter, and any two radio configuration parameter sets of the at least two radio configuration parameter sets being different from each other in terms of at least part of a value of the at least one radio configuration parameter; and

receiving, by the terminal, from a base station (ST) first system information during a first time period via at least one first frequency-domain resource based on at least one first radio configuration parameter set of the at least two radio configuration parameter sets, the at least one first frequency-domain resource and the at least one first radio configuration parameter set having one-to-one correspondences during the first time period, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies,

wherein the radio configuration parameter comprises at least one of: a subcarrier spacing, an Orthogonal Frequency Division Multiplexing (OFDM) symbol length, a Cyclic Prefix (CP) length, a total number of OFDM symbols, a radio frame length and a subframe length.

8. The method of claim 7, wherein receiving, by the terminal, from a ST first system information during a first time period via at least one first frequency-domain resource based on at least one first radio configuration parameter set of the at least two radio configuration sets comprises:

determining, by the terminal, the at least one first frequency-domain resource configured for receiving the first system information;

determining, by the terminal, a first group of the radio configuration parameter sets, corresponding to a frequency corresponding to each of the at least one first frequency-domain resource, of the at least two radio configuration parameter sets according to the frequency corresponding to each of the at least one first frequency-domain resource, the first group comprising the at least one first radio configuration parameter set; and

receiving, by the terminal, from the base ST the first system information during the first time period via the at least one first frequency-domain resource based on the at least one first radio configuration parameter set.

9. The method of claim 7 or 8, further comprising:

determining, by the terminal, at least one second radio configuration parameter set, for

receiving the first system information during a second time period, of the at least two radio configuration parameter sets; and

receiving, by the terminal, the first system information during the second time period via at least one second frequency-domain resource based on the at least one second radio configuration parameter set, the at least one second frequency-domain resource and the at least one second radio configuration parameter set having one-to-one correspondences during the second time period, and any two frequency-domain resources of the at least one second frequency-domain resource corresponding to different frequencies.

10. The method of any one of claims 7-9, further comprising:

acquiring, by the terminal, first indication information from the first system information, the first indication information indicating at least one of a time-frequency resource or radio configuration parameter set used by the terminal for receiving second system information, wherein the first system information comprises a Master Information Block (MIB), and the second system information comprises at least one System Information Block (SIB).

11. The method of any one of claims 7-10, wherein the terminal is a terminal located in a first cell, the base ST is a base ST for the first cell, and the method further comprises:

receiving, by the terminal, second indication information sent by the base ST, the second indication information indicating at least one of a time-frequency resource or radio configuration parameter set used by the terminal for receiving third system information, wherein the third system information is system information for a second cell and the second cell is adjacent to the first cell; and

receiving, by the terminal, the third system information according to the second indication information.

12. The method of claim 11, further comprising:

receiving, by the terminal, third indication information sent by the base ST, the third indication information indicating an offset between a timing of the first cell and a timing of the second cell, wherein

receiving, by the terminal, the third system information according to the second indication information comprises:

receiving, by the terminal, the third system information according to the second

indication information and the third indication information.

13. A base Station (ST), comprising:

an acquisition unit, configured to acquire at least two radio configuration parameter sets, each of the at least two radio configuration parameter sets comprising at least one radio configuration parameter, and any two radio configuration parameter sets of the at least two radio configuration parameter sets being different from each other in terms at least a part of a value of at least one radio configuration parameter;

a determination unit, configured to determine at least one of the at least two radio configuration parameter sets as at least one first radio configuration parameter set for transmitting first system information during a first time period; and

a sending unit, configured to send the first system information during the first time period via at least one first frequency-domain resource based on the at least one first radio configuration parameter set, the at least one first frequency-domain resource and the at least one first radio configuration parameter set having one-to-one correspondences during the first time period, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies,

wherein the radio configuration parameter comprises at least one of: a subcarrier spacing, an Orthogonal Frequency Division Multiplexing (OFDM) symbol length, a Cyclic Prefix (CP) length, a total number of OFDM symbols, a radio frame length and a subframe length.

14. A terminal, comprising:

an acquisition unit, configured to acquire or pre-store at least two radio configuration parameter sets, each of the at least two radio configuration parameter sets comprising at least one radio configuration parameter, and any two radio configuration parameter sets of the at least two radio configuration parameter sets being different from each other in terms of at least part of a value of the at least one radio configuration parameter; and

a receiving unit, configured to receive from a base station (ST) first system information during a first time period via at least one first frequency-domain resource based on at least one first radio configuration parameter set of the at least two radio configuration parameter sets, the at least one first frequency-domain resource and the at least one first radio configuration parameter set having one-to-one correspondences during the first time period, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding

to different frequencies,

wherein the radio configuration parameter comprises at least one of: a subcarrier spacing, an Orthogonal Frequency Division Multiplexing (OFDM) symbol length, a Cyclic Prefix (CP) length, a total number of OFDM symbols, a radio frame length and a subframe length.

15. The terminal of claim 14, further comprising:

a determination unit, configured to determine the at least one first frequency-domain resource configured for receiving the first system information and determine a first group of the radio configuration parameter sets, corresponding to a frequency corresponding to the at least one first frequency-domain resource, of the at least two radio configuration parameter sets according to the frequency corresponding to each of the at least one first frequency-domain resource, the first group comprising the at least one first radio configuration parameter set, wherein

the receiving unit is specifically configured to receive from the base ST the first system information during the first time period via the at least one first frequency-domain resource based on the at least one first radio configuration parameter set.

16. The terminal of claim 14 or 15, wherein the determination unit is further configured to determine at least one second radio configuration parameter set for receiving the first system information during a second time period; and

the receiving unit is further configured to receive the first system information during the second time period via at least one second frequency-domain resource based on the at least one second radio configuration parameter set, the at least one second frequency-domain resource and the at least one second radio configuration parameter set having one-to-one correspondences during the second time period, and any two frequency-domain resources of the at least one second frequency-domain resource corresponding to different frequencies.

17. The terminal of any one of claims 14-16, wherein the acquisition unit is further configured to acquire first indication information from the first system information, the first indication information indicating at least one of a time-frequency resource or radio configuration parameter set used by the terminal for receiving second system information, wherein the first system information comprises a Master Information Block (MIB), and the second system information comprises at least one System Information Block (SIB).

18. The terminal of any one of claims 14-17, wherein the terminal is a terminal located in a first cell, the base ST is a base ST for the first cell, and

the receiving unit is further configured to receive second indication information sent by the base ST, the second indication information indicating at least one of a time-frequency resource or radio configuration parameter set used by the terminal for receiving third system information, wherein the third system information is system information for a second cell and the second cell is adjacent to the first cell; and receive the third indication information according to the second indication information.

19. The terminal of claim 18, wherein the receiving unit is further configured to receive third indication information sent by the base ST, the third indication information indicating an offset between a timing of the first cell and a timing of the second cell, and receive the third system information according to the second indication information and the third indication information.