memory 530 to control the transceiver 510 to send and receive signals.

Here, the processor 520 is configured to acquire at least two radio configuration parameter sets, each of the at least two radio configuration parameter sets includes at least one radio configuration parameter. And any two radio configuration parameter sets are different from each other in terms of at least one radio configuration parameter.

The processor 520 is further 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.

The transceiver 510 is 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 have one-to-one correspondences during the first time period, and any two frequency-domain resources of the at least one first frequency-domain resource correspond to different frequencies.

It is to be understood that, in the embodiment of the disclosure, the processor 520 may be a Central Processing Unit (CPU) and the processor 520 may also be another universal processor, a Digital Signal Processor (DSP), an Application Specific Integrated Circuit (ASIC), a Field-Programmable Gate Array (FPGA) or another programmable logic device, discrete gate or transistor logic device and discrete hardware component and the like. The universal processor may be a microprocessor or the processor may also be any conventional processor and the like.

The memory 530 may include a Read-Only Memory (ROM) and a Random Access Memory (RAM) and provides an instruction and data for the processor 520. A part of the memory 530 may further include a nonvolatile RAM. For example, the memory 530 may further store information of an equipment type.

The bus system 540 includes a data bus, and may further include a power bus, a control bus, a state signal bus and the like. However, for clear description, various buses in the figure are marked as the bus system 540.

In an implementation process, each action of the method may be completed by an integrated logic circuit of hardware in the processor 520 or an instruction in a software form. The actions of the positioning method disclosed in combination with the embodiments of the disclosure may be directly embodied to be executed and completed by a hardware processor or executed and completed by a combination of hardware and software modules in the processor. The software module may be located in a mature storage medium in this field such as a RAM, a flash memory, a ROM, a Programmable ROM (PROM) or Electrically Erasable PROM

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 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, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies when the at least one first frequency-domain resource comprises two or more first frequency-domain resource.

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, and any two frequency-domain resources of the at least one second frequency-domain resource corresponding to different frequencies when the at least one second frequency-domain resource comprises two or more second frequency-domain resources.

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 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.

5. The method of any one of claims 1-4, 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).

6. The method of any one of claims 1-5, 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.

7. The method of claim 6, 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.

8. 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 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, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies when the at least one first frequency-domain resource comprises two or more first frequency-domain resources.

9. The method of claim 8, 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.

10. The method of claim 8 or 9, 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, and any two frequency-domain resources of the at least one

second frequency-domain resource corresponding to different frequencies when the at least one second frequency-domain resource comprises two or more second frequency-domain resources.

11. The method of any one of claims 8-10, 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).

12. The method of any one of claims 8-11, 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.

13. The method of claim 12, 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.

14. 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 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, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies when the at least one first frequency-domain resource comprises two or more first frequency-domain resources.

15. 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 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, and any two frequency-domain resources of the at least one first frequency-domain resource corresponding to different frequencies when the at least one first frequency-domain resource comprises two or more first frequency-domain resources.

16. The terminal of claim 15, 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.

17. The terminal of claim 15 or 16, 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, and any two frequency-domain resources of the at least one second frequency-domain resource corresponding to different frequencies when the at least one second frequency-domain resource comprises two or more second frequency-domain resources.

18. The terminal of any one of claims 15-17, 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).

19. The terminal of any one of claims 15-18, 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.

20. The terminal of claim 19, 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.