

to indicate the first time-frequency resource, and the first time-frequency resource is configured to send the PDCCH and is located in the plurality of consecutive time domain units of the group of multi-slot.

[00121] In an implementation, the maximum number of time domain symbols in the CORESET supported by the UE 101 relates to a data processing capability of the UE 101.

[00122] In an implementation, the maximum number of time domain symbols in the CORESET supported by the UE 101 relates to the SCS~~CS~~.

[00123] In an example,

[00124] when the SCS is less than or equal to 120KHz, the maximum number of time domain symbols in the CORESET supported by the UE is 3;

[00125] when the SCS is equal to 480KHz, the maximum number of time domain symbols in the CORESET supported by the UE is 4; and

[00126] when the SCS is equal to 960KHz, the maximum number of time domain symbols in the CORESET supported by the UE is 6.

[00127] In an implementation, the maximum number of time domain symbols in the CORESET supported by the UE 101 relates to the data processing capacity of the UE 101 and the SCS~~CS~~.

[00128] In the embodiment of the disclosure, the UE 101 reports the number of consecutive OFDM symbols occupied by the CORESET supported by itself in the time domain, and the network device 102 determines the number of consecutive OFDM symbols occupied by the CORESET corresponding to the first time-frequency resource in the time domain unit based on the number of consecutive OFDM symbols occupied by the CORESET supported by the UE in the time domain, so that the determined number of consecutive OFDM symbols occupied by the CORESET corresponding to the first time-frequency resource in the time domain unit can be configured to match with the capability of the UE.

[00129] A method for transmitting configuration information of a PDCCH is provided by the embodiment of the disclosure. The method includes the following steps.

[00130] At step S10-1, the UE 101 sends a number of consecutive OFDM symbols occupied in the time domain by the CORESET supported by the UE 101 to the network device 102.

[00131] At step S10-2, the network device 102 receives the number of consecutive OFDM

CLAIMS

WHAT IS CLAIMED IS:

1. A method for transmitting configuration information of a physical downlink control channel (PDCCH), performed by a network device, comprising:

sending the configuration information of the PDCCH to a user equipment, wherein the configuration information of the PDCCH ~~is used to indicate~~indicates a first time-frequency resource, and the first time-frequency resource is ~~used~~configured to send the PDCCH and is located in a plurality of consecutive time domain units of a group of multi-slot.

2. The method of claim 1, wherein

a maximum number of time domain units occupied by the first time-frequency resource in time-frequency resources of the group of multi-slot relates to one of: a number of time domain units contained in the time-frequency resources of the group of multi-slot, or a subcarrier spacing; ~~or~~

~~the maximum number of time domain units occupied by the first time-frequency resource in the time-frequency resources of the group of multi-slot relates to a subcarrier spacing.~~

3. The method of claim 1 or 2, wherein a first number of symbols is greater than 3, and the first number of symbols is a number of consecutive orthogonal frequency division multiplexing (OFDM) symbols occupied by a control resource set corresponding to the first time-frequency resource in a time domain unit ~~is greater than 3~~.

4. The method of any of claims 1-3, further comprising:

receiving a second number of symbols from the user equipment, wherein the second number of symbols is a number of consecutive OFDM symbols occupied by a control resource set supported by the user equipment in a time domain ~~from the user equipment~~.

5. The method of claim 4, further comprising:

determining ~~a~~ the first number of ~~consecutive OFDM symbols occupied by a control resource set corresponding to the first time-frequency resource in a time domain unit according to the~~ second number of ~~consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain.~~

6. The method of claim 5, ~~wherein determining the number of consecutive OFDM symbols occupied by the control resource set corresponding to the first time-frequency resource in the time domain unit according to the number of consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain,~~

~~comprises~~further comprising:

determining ~~that the~~ first number of ~~consecutive OFDM~~ symbols occupied by the control resource set corresponding to the first time-frequency resource in the time domain ~~unit is being~~ greater than 3 and less than the second number of ~~consecutive OFDM~~ symbols ~~occupied by the control resource set supported by the user equipment in the time domain~~.

7. A method for transmitting configuration information of a PDCCH, performed by a user equipment, comprising:

receiving the configuration information of the PDCCH from a network device, wherein the configuration information of the PDCCH ~~is used to indicate~~indicates a first time-frequency resource, and the first time-frequency resource is ~~used~~configured to send the PDCCH and is located in a plurality of consecutive time domain units of a group of multi-slot.

8. The method of claim ~~6~~7, wherein

a maximum number of time domain units occupied by the first time-frequency resource in time-frequency resources of the group of multi-slot relates to one of: a number of time domain units contained in the time-frequency resources of the group of multi-slot, or a subcarrier spacing; ~~or~~

~~the maximum number of time domain units occupied by the first time-frequency resource in the time-frequency resources of the group of multi-slot relates to a subcarrier spacing.~~

9. The method of claim ~~7~~or 8, wherein a first number of symbols is greater than 3, and the first number of symbols is a number of consecutive OFDM symbols occupied by a control resource set corresponding to the first time-frequency resource in a time domain unit~~is greater than 3~~.

10. The method of claim 9, further comprising:

sending a second number of symbols to the network device, wherein the second number of symbols is a number of consecutive OFDM symbols occupied by a control resource set supported by the user equipment in a time domain ~~to the network device~~, wherein the second number of ~~consecutive OFDM~~ symbols ~~occupied by the control resource set supported by the user equipment in the time domain~~ is ~~used~~configured to cause the network device to determine the first number of ~~consecutive OFDM~~ symbols ~~occupied by the control resource set corresponding to the first time-frequency resource in the time domain unit~~ according to the second number of ~~consecutive OFDM~~ symbols

occupied by the control resource set supported by the user equipment in the time domain.

11. A communication device, comprising:

a transceiver module, configured to send configuration information of a PDCCH to a user equipment, wherein the configuration information of the PDCCH is used to indicate a first time-frequency resource, and the first time-frequency resource is used to send the PDCCH and is located in a plurality of consecutive time domain units of a group of multi-slot.

12. The communication device of claim 11, wherein

a maximum number of time domain units occupied by the first time-frequency resource in time-frequency resources of the group of multi-slot relates to a number of time domain units contained in the time-frequency resources of the group of multi-slot;
or

the maximum number of time domain units occupied by the first time-frequency resource in the time-frequency resources of the group of multi-slot relates to a subcarrier spacing.

13. The communication device of claim 11, wherein a number of consecutive OFDM symbols occupied by a control resource set corresponding to the first time-frequency resource in a time domain unit is greater than 3.

14. The communication device of claim 11, wherein

the transceiver module is configured to receive a number of consecutive OFDM symbols occupied by a control resource set supported by the user equipment in a time domain from the user equipment.

15. The communication device of claim 14, further comprising:

a processing module, configured to determine a number of consecutive OFDM symbols occupied by a control resource set corresponding to the first time-frequency resource in a time domain unit according to the number of consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain.

16. The communication device of claim 15, wherein

the processing module is configured to determine that the number of consecutive OFDM symbols occupied by the control resource set corresponding to the first time-frequency resource in the time domain unit is greater than 3 and less than the number of consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain.

17. A communication device, comprising:

~~a transceiver module, configured to receive configuration information of a PDCCH from a network device, wherein the configuration information of the PDCCH is used to indicate a first time-frequency resource, and the first time-frequency resource is used to send the PDCCH and is located in a plurality of consecutive time domain units of a group of multi-slot.~~

~~18. The communication device of claim 17, wherein~~

~~a maximum number of time domain units occupied by the first time frequency resource in time-frequency resources of the group of multi-slot relates to a number of time domain units contained in the time-frequency resources of the group of multi-slot; or~~

~~the maximum number of time domain units occupied by the first time frequency resource in the time-frequency resources of the group of multi-slot relates to a subcarrier spacing.~~

~~19. The communication device of claim 17, wherein a number of consecutive OFDM symbols occupied by a control resource set corresponding to the first time frequency resource in a time domain unit is greater than 3.~~

~~20. The communication device of claim 17, wherein~~

~~the transceiver module is configured to send a number of consecutive OFDM symbols occupied by a control resource set supported by a user equipment in a time domain to the network device, wherein the number of consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain is used to cause the network device to determine the number of consecutive OFDM symbols occupied by the control resource set corresponding to the first time frequency resource in the time domain unit according to the number of consecutive OFDM symbols occupied by the control resource set supported by the user equipment in the time domain.~~

~~21. A communicating network device, comprising:~~

~~a processor; and a memory, wherein~~

~~the a memory is configured to store computer programs; and~~

~~wherein the processor is configured to execute the computer programs to implement the method of any one of claims 1-6.~~

~~22. A user equipment communicating device, comprising:~~

~~a processor; and a memory, wherein~~

~~the a memory is configured to store computer programs; and~~

~~wherein the processor is configured to execute the computer programs to implement~~

the method of any one of claims 7-10.

~~23~~13. A non-transitory computer-readable storage medium having instructions stored thereon, wherein when the instructions are called and executed on a computer, the computer is caused to implement the method of any one of claims 1-6 or 7-10.

~~24. A computer readable storage medium having instructions stored thereon, wherein when the instructions are called and executed on a computer, the computer is caused to implement the method of any one of claims 7-10.~~