

What is claimed is:

1. A method for determining a time-frequency resource, comprising:

acquiring, by a terminal device, a power-saving related configuration configured by a network side; wherein the power-saving related configuration comprises a discontinuous reception (DRX) configuration; and

determining, by the terminal device, a time-frequency resource for receiving a power-saving channel/signal according to a relationship between the power-saving related configuration or a power-saving related configuration parameter and the time-frequency resource of the power-saving channel/signal,

wherein the power-saving channel/signal comprises a physical downlink control channel (PDCCH), a reference signal or a sequence-based signal, and wherein the power-saving channel/signal is configured to instruct, prior to a DRX ON duration, the terminal device whether to wake up during the DRX ON duration.

2. The method of claim 1, wherein the method further comprises: acquiring, by the terminal device, the relationship.

3. The method of claim 1, wherein the method further comprises: acquiring, by the terminal device, the time-frequency resource of the power-saving channel/signal.

4. The method of claim 1, wherein the relationship comprises:

a relationship between the time-frequency resource of the power-saving channel/signal and one power-saving related configuration parameter; or

a relationship between the time-frequency resource of the power-saving channel/signal and a combination of at least two power-saving related configuration parameters, wherein the at least two power-saving related configuration parameters comprise at least two parameters belonging to a same power-saving related configuration or at least two parameters belonging to at least two power-saving related configurations.

5. The method of claim 1, wherein the power-saving related configuration comprises ~~a discontinuous reception (DRX) configuration, and/or~~ a bandwidth part (BWP) configuration, and/or a physical downlink control channel (PDCCH) control resource set (CORSET)

configuration, and/or a PDCCH searchSpace configuration and/or a multiple-input multiple-output (MIMO) configuration, and/or a MIMO layers configuration, and/or an antenna configuration, and/or a channel state information (CSI) report configuration, and/or a radio resource management (RRM) measurement configuration,

5 wherein the power-saving related configuration parameter comprises part of parameters in the DRX configuration, and/or part of parameters in the PDCCH CORSET configuration, and/or part of parameters in the PDCCH searchSpace configuration, and/or part of parameters in the CSI report configuration, and/or part of parameters in the RRM measurement configuration.

10 6. A method for determining a time-frequency resource, comprising:

 configuring, by a network side, a power-saving related configuration for a terminal device, wherein the power-saving related configuration comprises a discontinuous reception (DRX) configuration, wherein there is a relationship between the power-saving related configuration or a power-saving related configuration parameter and a time-frequency resource of a power-saving channel/signal, and the power-saving related configuration is for the terminal device to determine a time-frequency resource for receiving the power-saving channel/signal according to the relationship~~and the relationship is used for determining a time-frequency resource for receiving the power-saving channel/signal,~~

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 wherein the power-saving channel/signal comprises a physical downlink control channel (PDCCH), a reference signal or a sequence-based signal, and

20 wherein the power-saving channel/signal is configured to instruct, prior to a DRX ON duration, the terminal device whether to wake up during the DRX ON duration.

 7. The method of claim 6, wherein the method further comprises: configuring, by the network side, the relationship.

25 8. The method of claim 6, wherein the method further comprises: configuring, by the network side, the time-frequency resource of the power-saving channel/signal.

 9. The method of claim 6, wherein the relationship comprises:

 a relationship between the time-frequency resource of the power-saving channel/signal

and one power-saving related configuration parameter; or

a relationship between the time-frequency resource of the power-saving channel/signal and a combination of at least two power-saving related configuration parameters, wherein the at least two power-saving related configuration parameters comprise at least two parameters
5 belonging to a same power-saving related configuration or at least two parameters belonging to at least two power-saving related configurations.

10 10. The method of claim 6, wherein the power-saving related configuration comprises ~~a discontinuous reception (DRX) configuration, and/or~~ a bandwidth part (BWP) configuration, and/or a physical downlink control channel (PDCCH) control resource set (CORSET) configuration, and/or a PDCCH searchSpace configuration and/or a multiple-input multiple-output (MIMO) configuration, and/or a MIMO layers configuration, and/or an antenna configuration, and/or a channel state information (CSI) report configuration, and/or a radio resource management (RRM) measurement configuration,

15 wherein the power-saving related configuration parameter comprises part of parameters in the DRX configuration, and/or part of parameters in the PDCCH CORSET configuration, and/or part of parameters in the PDCCH searchSpace configuration, and/or part of parameters in the CSI report configuration, and/or part of parameters in the RRM measurement configuration.

20 11. ~~A terminal device~~An apparatus for determining a time-frequency resource, which ~~is applied to a terminal device and~~ comprises an acquisition unit and a determination unit;

wherein the acquisition unit is configured to acquire a power-saving related configuration configured by a network side, wherein the power-saving related configuration comprises a discontinuous reception (DRX) configuration; and

25 the determination unit is configured to determine a time-frequency resource for receiving a power-saving channel/signal according to a relationship between the power-saving related configuration or a power-saving related configuration parameter and the time-frequency resource of the power-saving channel/signal,

wherein the power-saving channel/signal comprises a physical downlink control channel

(PDCCH), a reference signal or a sequence-based signal, and

wherein the power-saving channel/signal is configured to instruct, prior to a DRX ON duration, the terminal device whether to wake up during the DRX ON duration.

12. The terminal device apparatus of claim 11, wherein the acquisition unit is further
5 configured to acquire the relationship.

13. The terminal device apparatus of claim 11, wherein the acquisition unit is further configured to acquire the time-frequency resource of the power-saving channel/signal.

14. The terminal device apparatus of claim 11, wherein the relationship comprises:

a relationship between the time-frequency resource of the power-saving channel/signal
10 and one power-saving related configuration parameter; or

a relationship between the time-frequency resource of the power-saving channel/signal and a combination of at least two power-saving related configuration parameters, wherein the at least two power-saving related configuration parameters comprise at least two parameters belonging to a same power-saving related configuration or at least two parameters belonging to
15 at least two power-saving related configurations.

15. The terminal device apparatus of claim 11, wherein the power-saving related configuration comprises ~~a discontinuous reception (DRX) configuration, and/or~~ a bandwidth part (BWP) configuration, and/or a physical downlink control channel (PDCCH) control resource set (CORSET) configuration, and/or a PDCCH searchSpace configuration and/or a
20 multiple-input multiple-output (MIMO) configuration, and/or a MIMO layers configuration, and/or an antenna configuration, and/or a channel state information (CSI) report configuration, and/or a radio resource management (RRM) measurement configuration,

wherein the power-saving related configuration parameter comprises part of parameters in the DRX configuration, and/or part of parameters in the PDCCH CORSET configuration,
25 and/or part of parameters in the PDCCH searchSpace configuration, and/or part of parameters in the CSI report configuration, and/or part of parameters in the RRM measurement configuration.

16. A network device~~An apparatus~~ for determining a time-frequency resource, which ~~is~~

~~applied to a network side and~~ comprises a configuration unit;

wherein the configuration unit is configured to configure a power-saving related configuration ~~for a terminal device, wherein the power-saving related configuration comprises a discontinuous reception (DRX) configuration, wherein~~ there is a relationship between the power-saving related configuration or a power-saving related configuration parameter and a time-frequency resource of a power-saving channel/signal, and the relationship is used for determining a time-frequency resource for receiving the power-saving channel/signal,

wherein the power-saving channel/signal comprises a physical downlink control channel (PDCCH), a reference signal or a sequence-based signal, ~~and~~

~~wherein the power-saving channel/signal is configured to instruct, prior to a DRX ON duration, a terminal device whether to wake up during the DRX ON duration.~~

17. The ~~network device apparatus~~ of claim 16, wherein the configuration unit is further configured to configure the relationship.

18. The ~~network device apparatus~~ of claim 16, wherein the configuration unit is further configured to configure the time-frequency resource of the power-saving channel/signal.

19. The ~~network device apparatus~~ of claim 16, wherein the relationship comprises:

a relationship between the time-frequency resource of the power-saving channel/signal and one power-saving related configuration parameter; or

a relationship between the time-frequency resource of the power-saving channel/signal and a combination of at least two power-saving related configuration parameters, wherein the at least two power-saving related configuration parameters comprise at least two parameters belonging to a same power-saving related configuration or at least two parameters belonging to at least two power-saving related configurations.

20. The ~~network device apparatus~~ of claim 16, wherein the power-saving related configuration comprises ~~a discontinuous reception (DRX) configuration, and/or~~ a bandwidth part (BWP) configuration, and/or a physical downlink control channel (PDCCH) control resource set (CORSET) configuration, and/or a PDCCH searchSpace configuration and/or a multiple-input multiple-output (MIMO) configuration, and/or a MIMO layers configuration,

and/or an antenna configuration, and/or a channel state information (CSI) report configuration, and/or a radio resource management (RRM) measurement configuration,

5 wherein the power-saving related configuration parameter comprises part of parameters in the DRX configuration, and/or part of parameters in the PDCCH CORSET configuration, and/or part of parameters in the PDCCH searchSpace configuration, and/or part of parameters in the CSI report configuration, and/or part of parameters in the RRM measurement configuration.