

WHAT IS CLAIMED IS:

1. A discontinuous reception DRX method, comprising:
 - determining, by a terminal device, at least one set of DRX parameters;
 - determining, by the terminal device, a target time-frequency resource for monitoring a control channel according to the at least one set of DRX parameters; and
 - monitoring, by the terminal device, the control channel on the target time-frequency resource;characterized in that each set of DRX parameters in the at least one set of DRX parameters comprise at least one of the following parameters:
 - an on duration time, an inactivity time, a retransmission time, a short DRX cycle, a long DRX cycle and a frequency monitoring range, wherein the frequency monitoring range represents a range of a frequency domain resource for monitoring the control channel.
2. The method of claim 1, wherein determining, by the terminal device, a target time-frequency resource for monitoring a control channel according to the at least one set of DRX parameters comprises:
 - determining, by the terminal device, at least one time-frequency resource set for monitoring the control channel according to the at least one set of DRX parameters, wherein the at least one set of DRX parameters correspond to the at least one time-frequency resource set one to one; and
 - determining, by the terminal device, the target time-frequency resource according to the at least one time-frequency resource set, wherein the target time-frequency resource comprises the at least one time-frequency resource set.
3. The method of claim 2, wherein in the at least one time-frequency resource set, if a time-domain resource range of a first time-frequency resource in a first time-frequency resource set comprises a time-domain resource range of a second time-frequency resource in a second time-frequency resource set, the time-domain resource range of the second time-frequency resource is adjusted to the time-domain resource range of the first time-frequency resource.

4. The method of claim 1, wherein each set of DRX parameters comprise one or more frequency monitoring ranges, and the frequency monitoring ranges are discontinuous in frequency domain.

5. The method of any one of claims 1 to 4, wherein determining, by a terminal device, at least one set of DRX parameters comprises:

determining, by the terminal device, at least one set of DRX parameters corresponding to at least one numerology according to at least one used numerology and a correspondence between multiple numerologies and multiple sets of DRX parameters.

6. The method of any one of claims 1 to 5, wherein determining, by a terminal device, at least one set of DRX parameters comprises:

receiving, by the terminal device, indication information sent by a network device, wherein the indication information is used for indicating the at least one set of DRX parameters.

7. The method of claim 6, wherein the indication information is a medium access control element MAC CE or downlink control information DCI.

8. The method of any one of claims 1 to 7, wherein determining, by a terminal device, at least one set of DRX parameters comprises:

determining, by the terminal device, the at least one set of DRX parameters from a plurality of sets of DRX parameters configured by a network device.

9. A discontinuous reception DRX method, comprising:

determining, by a network device, at least one set of DRX parameters;

determining, by the network device, a target time-frequency resource for sending a control channel according to the at least one set of DRX parameters; and

sending, by the network device, the control channel to a terminal device on the target time-frequency resource;

characterized in that each set of DRX parameters in the at least one set of DRX parameters comprise at least one of the following parameters:

an on duration time, an inactivity time, a retransmission time, a short DRX cycle, a long DRX cycle and a frequency monitoring range, wherein the frequency monitoring range represents a range of a frequency domain resource for monitoring the control channel;

optionally,

wherein each set of DRX parameters comprise one or more frequency monitoring ranges, and the frequency monitoring ranges are discontinuous in frequency domain.

10. The method of claim 9, wherein determining, by the network device, a target time-frequency resource for sending a control channel according to the at least one set of DRX parameters, comprises:

determining, by the network device, at least one time-frequency resource set for sending the control channel according to the at least one set of DRX parameters, wherein the at least one set of DRX parameters correspond to the at least one time-frequency resource set one to one; and

determining, by the network device, the target time-frequency resource according to the at least one time-frequency resource set, wherein the target time-frequency resource comprises the at least one time-frequency resource set;

optionally,

wherein in the at least one time-frequency resource set, if a time-domain resource range of a first time-frequency resource in a first time-frequency resource set comprises a time-domain resource range of a second time-frequency resource in a second time-frequency resource set, the time-domain resource range of the second time-frequency resource is adjusted to the time-domain resource range of the first time-frequency resource.

11. The method of any one of claims 9 to 10, wherein determining, by a network device, at least one set of DRX parameters comprises:

determining, by the network device, the at least one set of DRX parameters

corresponding to at least one numerology according to at least one used numerology and a correspondence between multiple numerologies and multiple sets of DRX parameters.

12. The method of any one of claims 9 to 12, further comprising:

sending, by the network device, indication information to the terminal device, wherein the indication information is used for indicating the at least one set of DRX parameters;

optionally,

wherein the indication information is a medium access control element (MAC CE) or downlink control information (DCI).

13. The method of any one of claims 9 to 12, wherein determining at least one set of DRX parameters by the network device comprises:

determining, by the network device, the at least one set of DRX parameters from a plurality of sets of configured DRX parameters.

14. A terminal device, comprising:

a determining unit configured to determine at least one set of DRX parameters;

wherein the determining unit is further configured to determine a target time-frequency resource for monitoring a control channel according to the at least one set of DRX parameters; and

a monitoring unit configured to monitor the control channel on the target time-frequency resource determined by the determining unit;

characterized in that each set of DRX parameters in the at least one set of DRX parameters comprise at least one of the following parameters:

an on duration time, an inactivity time, a retransmission time, a short DRX cycle, a long DRX cycle and a frequency monitoring range, wherein the frequency monitoring range represents a range of a frequency domain resource for monitoring the control channel.

15. A network device, comprising:

a determining unit configured to determine at least one set of DRX parameters;

wherein the determining unit is further configured to determine a target time-frequency resource for sending a control channel according to the at least one set of DRX parameters; and

a sending unit configured to send the control channel to a terminal device on the target time-frequency resource;

characterized in that each set of DRX parameters in the at least one set of DRX parameters comprise at least one of the following parameters:

an on duration time, an inactivity time, a retransmission time, a short DRX cycle, a long DRX cycle and a frequency monitoring range, wherein the frequency monitoring range represents a range of a frequency domain resource for monitoring the control channel;

optionally,

wherein each set of DRX parameters comprise one or more frequency monitoring ranges, and the frequency monitoring ranges are discontinuous in frequency domain.