

Claim

1. A method for discontinuous reception (DRX) parameter configuration, comprising:

determining, by a terminal, a target DRX parameter of a target DRX mechanism of the terminal when the terminal has detected data of a plurality of services,

5 wherein determining, by the terminal, the target DRX parameter of the target DRX mechanism, comprises:

determining, by the terminal, a maximum value of the DRX parameters of the DRX mechanisms corresponding to the plurality of services as the target DRX parameter of the target DRX mechanism; or,

10 determining, by the terminal, a DRX parameter of a DRX mechanism corresponding to a service with a highest priority among the plurality of services as the target DRX parameter of the target DRX mechanism.

2. The method of claim 1, wherein the target DRX parameter comprises a timing length of an Inactivity Timer and a timing length of a first timer of the target DRX mechanism, and the
15 Inactivity Timer is used to be started when the terminal has monitored a Downlink Control Channel during a time period of On-Duration; a time period of the Inactivity Timer is used for the terminal to periodically monitor a Downlink Control Channel with a preset sleep time length being a monitoring period and the timing length of the first timer being a monitoring time length; the first timer is used to be started when the terminal has monitored a Downlink
20 Control Channel during the time period of On-Duration, and a time period of the first timer is used for prolonging the timing length of the first timer to a reference timing length of the Inactivity Timer of a DRX mechanism corresponding to a reference service when the terminal has monitored the Downlink Control Channel of the reference service;

determining, by the terminal, the target DRX parameter of the target DRX mechanism of
25 the terminal according to the DRX parameters of the DRX mechanisms corresponding to the plurality of services, comprises:

determining, by the terminal, a maximum value of timing lengths of Inactivity Timers of the DRX mechanisms corresponding to the plurality of services as the timing length of the

Inactivity Timer of the target DRX mechanism, and determining, by the terminal, a minimum value of timing lengths of the Inactivity Timers of the DRX mechanisms corresponding to the plurality of services as the timing length of the first timer of the target DRX mechanism; or,

determining, by the terminal, a maximum value of timing lengths of the Inactivity Timers of the DRX mechanisms corresponding to the plurality of services as the timing length of the Inactivity Timer of the target DRX mechanism, and determining, by the terminal, a timing length of an Inactivity Timer of a DRX mechanism corresponding to a service with a highest priority among the plurality of services as the timing length of the first timer of the target DRX mechanism.

3. The method of claim 1, wherein the target DRX parameter is a timing length of an Inactivity Timer of the target DRX mechanism, and determining, by the terminal, the target DRX parameter of the target DRX mechanism of the terminal according to the DRX parameters of the DRX mechanisms corresponding to the plurality of services, comprises:

determining, by the terminal, a timing length of an Inactivity Timer of a DRX mechanism corresponding to a reference service scheduled first during a time period of On-Duration of a current DRX mechanism as the timing length of the Inactivity Timer of the target DRX mechanism.

4. The method of claim 1, wherein determining, by the terminal, the target DRX parameter of the target DRX mechanism of the terminal, comprises:

receiving, by the terminal, a target DRX parameter of a target DRX mechanism sent by a network-side device, and determining, by the terminal, the target DRX parameter of the target DRX mechanism of the terminal, wherein the target DRX parameter is determined by the network-side device according to DRX parameters of DRX mechanisms corresponding to the plurality of services.

5. The method of claim 4, wherein,
the target DRX parameter is a maximum value of the DRX parameters of the DRX mechanisms corresponding to the plurality of services; or,

the target DRX parameter is a DRX parameter of a DRX mechanism corresponding to a

service with a highest priority among the plurality of services.

6. The method of claim 1 or 5, wherein the target DRX parameter comprises at least one of the following:

5 a time length of a DRX Cycle, a timing length of an On-duration Timer, and a timing length of an Inactivity Timer.

7. The method of claim 1, wherein the target DRX parameter comprises a timing length of an Inactivity Timer and a timing length of a first timer of the target DRX mechanism, and the Inactivity Timer is used to be started when the terminal has monitored a Downlink Control Channel during a time period of On-Duration; a time period of the Inactivity Timer is used for the terminal to periodically monitor a Downlink Control Channel with a preset sleep time length being a monitoring period and the timing length of the first timer being a monitoring time length; the first timer is used to be started when the terminal has monitored a Downlink Control Channel during the time period of On-Duration, and a time period of the first timer is used for prolonging the timing length of the first timer to a reference timing length of the Inactivity Timer of a DRX mechanism corresponding to a reference service when the terminal has monitored the Downlink Control Channel of the reference service;

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the timing length of the Inactivity Timer of the target DRX mechanism is a maximum value of timing lengths of Inactivity Timers of the DRX mechanisms corresponding to the plurality of services, and the timing length of the first timer of the target DRX mechanism is a minimum value of timing lengths of the Inactivity Timers of the DRX mechanisms corresponding to the plurality of services; or,

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the timing length of the Inactivity Timer of the target DRX mechanism is a maximum value of timing lengths of Inactivity Timers of the DRX mechanisms corresponding to the plurality of services, and the timing length of the first timer of the target DRX mechanism is a timing length of an Inactivity Timer of a DRX mechanism corresponding to a service with a highest priority among the plurality of services.

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8. The method of claim 1, wherein the target DRX parameter is a timing length of an Inactivity Timer of the target DRX mechanism;

the timing length of the Inactivity Timer of the target DRX mechanism is a timing length

of an Inactivity Timer of a DRX mechanism corresponding to a reference service scheduled first by a network-side device during a time period of On-Duration of a current DRX mechanism.

5 9. The method of any one of claims 1-8, wherein the plurality of services come from different logical channels, logical channel groups, or data Radio Bearers, or the plurality of services have different quality of service flow IDs (QoS-Flow-IDs).

10. The method of any one of claims 1-9, wherein the target DRX mechanism is used for the terminal to monitor a downlink control channel and sleep.

10 11. The method of any one of claims 1-10, wherein the target DRX mechanism is further used for the terminal to receive data of the plurality of services during a time period of monitoring the Downlink Control Channel.

12. The method of claim 2, wherein the preset sleep time length is less than the minimum value of timing lengths of the Inactivity Timers of the DRX mechanisms corresponding to the plurality of services.

15 13. A terminal comprising a processor, a memory and a transceiver, wherein the processor is communicatively connected with the memory and the transceiver;

the memory stores program codes and data, and the processor is used for calling the program codes and the data in the memory to perform the method of any one of claims 1 to 12.