

CLAIMS

What is claimed is:

1. A configuration method, applied to a terminal device and comprising:
receiving, from a network-side device, configuration information of a power saving mode or a power saving class of the terminal device; and
setting, according to the configuration information, value(s) of one or more sixth parameters corresponding to the power saving mode or the power saving class of the terminal device;

wherein the sixth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;
a maximum downlink transmission rate;
the number of CSI reports simultaneously processable by the terminal device;
the number of beam management reports simultaneously processable by the terminal device;
the number of measurement resources simultaneously receivable or processable by the terminal device;
a CSI report related delay; and
a beam management report related delay.

2. The method according to claim 1, wherein the receiving, from a network-side device, configuration information of a power saving mode or a power saving class of the terminal device comprises:

receiving the configuration information of the power saving mode or the power saving class of the terminal device by using radio resource control RRC signaling, media access control MAC signaling, or PDCCH signaling.

3. The method according to claim 1 or 2, wherein

the configuration information comprises a fourth field, and a value of the fourth field corresponds to value(s) of one or more seventh parameters, wherein the seventh parameter is related to power consumption of the terminal device; or

the configuration information comprises a fifth field, and a value of the fifth field corresponds to value(s) of one or more eighth parameters corresponding to a power saving mode or a power saving class; or

the configuration information comprises a sixth field, the sixth field comprises one or more second bit strings, and a value of each second bit string corresponds to a value of a ninth parameter, wherein the ninth parameter is related to power consumption of the terminal device.

4. The method according to claim 3, wherein

the seventh parameter and the value of the seventh parameter are configured by the network-side device or prescribed by a protocol; or

the eighth parameter and the value of the eighth parameter are configured by the network-side device or prescribed by a protocol; or

the ninth parameter and the value of the ninth parameter are configured by the network-side device or prescribed by a protocol.

5. The method according to claim 3~~any one of claims 1 to 4~~, wherein ~~the sixth parameter,~~ the seventh parameter, the eighth parameter, or the ninth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a discontinuous reception DRX cycle;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;

a maximum downlink transmission rate;

the number of CSI reports simultaneously processable by the terminal device;

the number of beam management reports simultaneously processable by the terminal device;

the number of measurement resources simultaneously receivable or processable by the terminal device;

a CSI report related delay; and

a beam management report related delay.

6. A configuration method, applied to a network-side device and comprising:

sending configuration information of a power saving mode or a power saving class of a terminal device to the terminal device, so that the terminal device sets value(s) of one or more sixth parameters of the power saving mode or the power saving class of the terminal device according to the configuration information;

wherein the sixth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;

a maximum downlink transmission rate;

the number of CSI reports simultaneously processable by the terminal device;

the number of beam management reports simultaneously processable by the terminal device;

the number of measurement resources simultaneously receivable or processable by the terminal device;

a CSI report related delay; and

a beam management report related delay.

7. The method according to claim 6, wherein the sending configuration information of a power saving mode or a power saving class of a terminal device to the terminal device comprises:

sending the configuration information of the power saving mode or the power saving class of the terminal device to the terminal device by using RRC signaling, MAC signaling, or PDCCH signaling.

8. The method according to claim 6 or 7, wherein

the configuration information comprises a fourth field, and a value of the fourth field corresponds to value(s) of one or more seventh parameters, wherein the seventh parameter is related to power consumption of the terminal device; or

the configuration information comprises a fifth field, and a value of the fifth field corresponds to value(s) of one or more eighth parameters of a power saving mode or a power saving class; or

the configuration information comprises a sixth field, the sixth field comprises one or more second bit strings, and a value of each second bit string corresponds to a value of a ninth parameter, wherein the ninth parameter is related to power consumption of the terminal device.

9. The method according to claim 8, wherein

the seventh parameter and the value of the seventh parameter are configured by

the network-side device or prescribed by a protocol; or

the eighth parameter and the value of the eighth parameter are configured by the network-side device or prescribed by a protocol; or

the ninth parameter and the value of the ninth parameter are configured by the network-side device or prescribed by a protocol.

10. The method according to claim 8~~any one of claims 7 to 9~~, wherein ~~the sixth parameter,~~ the seventh parameter, the eighth parameter, or the ninth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;

a maximum downlink transmission rate;

the number of CSI reports simultaneously processable by the terminal device;

the number of beam management reports simultaneously processable by the terminal device;

the number of measurement resources simultaneously receivable or processable by the terminal device;

a CSI report related delay; and

a beam management report related delay.

11. A terminal device, comprising:

a third receiving module, configured to receive, from a network-side device, configuration information of a power saving mode or a power saving class of the terminal device; and

a second processing module, configured to set, according to the configuration information, value(s) of one or more sixth parameters corresponding to the power saving mode or the power saving class of the terminal device;

wherein the sixth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a bandwidth of a BWP;

an ID of a BWP;
DC;
non-DC;
a maximum uplink transmission rate;
a maximum downlink transmission rate;
the number of CSI reports simultaneously processable by the terminal device;
the number of beam management reports simultaneously processable by the
terminal device;
the number of measurement resources simultaneously receivable or processable
by the terminal device;
a CSI report related delay; and
a beam management report related delay.

12. The terminal device according to claim 11, wherein
the configuration information comprises a fourth field, and a value of the fourth
field corresponds to value(s) of one or more seventh parameters, wherein the seventh
parameter is related to power consumption of the terminal device; or
the configuration information comprises a fifth field, and a value of the fifth field
corresponds to value(s) of one or more eighth parameters corresponding to a power
saving mode or a power saving class; or
the configuration information comprises a sixth field, the sixth field comprises one
or more second bit strings, and a value of each second bit string corresponds to a value
of a ninth parameter, wherein the ninth parameter is related to power consumption of
the terminal device.

13. The terminal device according to claim 12, wherein
the seventh parameter and the value of the seventh parameter are configured by
the network-side device or prescribed by a protocol; or
the eighth parameter and the value of the eighth parameter are configured by the
network-side device or prescribed by a protocol; or
the ninth parameter and the value of the ninth parameter are configured by the

network-side device or prescribed by a protocol.

14. The terminal device according to claim 12, wherein the seventh parameter, the eighth parameter, or the ninth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a discontinuous reception DRX cycle;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;

a maximum downlink transmission rate;

the number of CSI reports simultaneously processable by the terminal device;

the number of beam management reports simultaneously processable by the terminal device;

the number of measurement resources simultaneously receivable or processable by the terminal device;

a CSI report related delay; and

a beam management report related delay.

15. A network-side device, comprising:

a third sending module, configured to send configuration information of a power saving mode or a power saving class of a terminal device to the terminal device, so that the terminal device sets value(s) of one or more sixth parameters of the power saving mode or the power saving class of the terminal device according to the configuration information;

wherein the sixth parameter comprises at least one of the following:

the number of transmit antennas or transmit channels of the terminal device;

the number of receive antennas or receive channels of the terminal device;

the number of simultaneously activated uplink component carriers;

the number of simultaneously activated downlink component carriers;

a time interval between a PDCCH and a PDSCH scheduled by the PDCCH;

a time interval between a PDSCH and a corresponding ACK or NACK;

a time interval between a PDCCH and a PUSCH scheduled by the PDCCH;

a PDSCH processing delay;

a PUSCH preparation delay;

the number of downlink MIMO layers;

the number of uplink MIMO layers;

a PDCCH monitoring period;

a PDCCH monitoring offset;

PDCCH monitoring duration;

a bandwidth of a BWP;

an ID of a BWP;

DC;

non-DC;

a maximum uplink transmission rate;

a maximum downlink transmission rate;

the number of CSI reports simultaneously processable by the terminal device;
the number of beam management reports simultaneously processable by the
terminal device;
the number of measurement resources simultaneously receivable or processable
by the terminal device;
a CSI report related delay; and
a beam management report related delay.

~~11. A terminal device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the configuration method according to any one of claims 1 to 5 are implemented.~~

~~12. A network side device, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the configuration method according to any one of claims 6 to 10 are implemented.~~