

CLAIMS

1. A method for measurement configuration, comprising:

5 acquiring, by a terminal, measurement configuration information from a network device, the measurement configuration information comprising a measurement configuration of the terminal in an inactive state; and

acquiring, by the terminal in the inactive state, a measurement result by measuring a network signal according to the measurement configuration,

10 wherein the measurement result is used for the network device to pre-configure the terminal in a connected state, the pre-configuring including configuring a secondary carrier and/or a secondary service node (SN)~~when the terminal is in the inactive state, consumption of measurement power and overhead of handover signaling of the terminal is reduced and a link is capable of being recovered fast for the terminal to transmit data.~~

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2. The method of claim 1, wherein the measurement configuration information comprises configuration information of a Reference Signal (RS) for measurement, and acquiring, by the terminal in the inactive state, the measurement result according to the measurement configuration comprises:

20 after the terminal is switched to the inactive state, measuring the RS according to the measurement configuration to acquire the measurement result; or,

after the terminal is switched to the inactive state, in response to that uplink data or a downlink paging message is detected, measuring the RS according to the measurement configuration to acquire the measurement result;

25 wherein the RS comprises at least one of an idle-state used RS and a connected-state used RS.

3. The method of claim 1 or 2, after acquiring, by the terminal in the inactive state, the measurement result according to the measurement configuration, the method further
30 comprising:

switching the terminal to ~~a~~the connected state; and

reporting, by the terminal, the measurement result;

wherein the measurement configuration information comprises a triggering

event of measurement reporting, and reporting, by the terminal, the measurement result comprises:

determining, by the terminal, whether to report the measurement result or not according to the triggering event of measurement reporting, and reporting the measurement result if the triggering event is initiated.

4. The method of claim 3, wherein

the triggering event of measurement reporting is that a signal strength or signal quality of a neighbor serving cell is greater than a preset threshold, or that a signal strength or signal quality of a neighbor serving cell is higher than a signal strength or signal quality of a presently connected serving cell by an offset;

the signal strength or signal quality is any value representing a signal strength and quality including at least one of the signal strength, the signal quality and a signal-to-noise ratio.

5. The method of claim 4, wherein reporting, by the terminal, the measurement result comprises:

transmitting, by the terminal, indication information to ~~a~~the network device, the indication information being used to indicate the measurement result; or

receiving, by the terminal, a request for reporting the measurement result from the network device, and reporting, by the terminal, the measurement result to the network device.

6. The method of any one of claims 1-5, further comprising:

releasing, by the terminal, the measurement configuration information, responsive to detecting that a present area is not a valid measurement area and/or detecting that present time is not valid measurement time.

7. The method of any one of claims 1-6, wherein signaling bearing the measurement configuration information is Radio Resource Control (RRC) connection release signaling or RRC reconfiguration signaling;

the measurement configuration information comprises at least one of a measurement frequency, a measurement pattern, valid measurement time and a valid

measurement area,

wherein the measurement frequency includes a measurement spectrum frequency; the valid measurement time is configured to identify time when the measurement configuration is valid after the inactive state is entered; and the valid measurement area includes one or more cells or includes one or more Radio Access Network (RAN) areas.

8. A terminal, comprising a processing unit and a communication unit, wherein

the processing unit is configured to acquire, through the communication unit, measurement configuration information from a network device, the measurement configuration information comprising a measurement configuration of the terminal in an inactive state, and acquire, through the communication unit, a measurement result by measuring a network signal according to the measurement configuration when the terminal is in the inactive state,

wherein the measurement result is used for the network device to pre-configure the terminal in a connected state, the pre-configuring including configuring a secondary carrier and/or a secondary service node (SN)~~when the terminal is in the inactive state, consumption of measurement power and overhead of handover signaling of the terminal is reduced and a link is capable of being recovered fast for the terminal to transmit data.~~

9. The terminal of claim 8, wherein the processing unit is further configured to:

switch the terminal to ~~a~~the connected state; and

report the measurement result;

wherein the measurement configuration information comprises a triggering event of measurement reporting;

the processing unit is further configured to determine whether to report the measurement result or not according to the triggering event of measurement reporting, and report the measurement result if the triggering event is initiated.

10. The terminal of claim 9, wherein the triggering event of measurement reporting is that a signal strength or signal quality of a neighbor serving cell is greater than a preset threshold, or that a signal strength or signal quality of a neighbor serving cell is

higher than a signal strength or signal quality of a presently connected serving cell by an offset;

the signal strength or signal quality is any value representing a signal strength and quality including at least one of the signal strength, the signal quality and a
5 signal-to-noise ratio.

11. The terminal of claim 10, wherein the communication unit is configured to:

transmit indication information to ~~a~~the network device, the indication
information being used to indicate the measurement result; or
10 receive from the network device a request for reporting the measurement result,
and report the measurement result to the network device.

12. The terminal of claim any one of claims 8-11, wherein the processing unit is further configured to:

15 release the measurement configuration information, responsive to detecting at
least one of facts that a present area is not a valid measurement area and present time
is not valid measurement time.

13. A method for measurement configuration, comprising:

20 transmitting, by a network device, measurement configuration information to a
terminal, the measurement configuration information comprising a measurement
configuration of ~~a~~the terminal in an inactive state, the measurement configuration
information being used for the terminal to make measurement according to the
measurement configuration to acquire a measurement result;

25 ~~14. The method of claim 13, after transmitting, by the network device, the~~
~~measurement configuration information, the method further comprising:~~

acquiring, by the network device, the measurement result, the measurement
result being reported by the terminal that is switched to a connected state; and
30 pre-configuring, by the network device, the terminal in the connected state
according to the measurement result, the pre-configuring including configuring a
secondary carrier and/or a secondary service node (SN).

14. The method of claim 13, wherein the measurement configuration information comprises configuration information of a Reference Signal (RS) for measurement, and the RS comprises an idle-state used RS and/or a connected-state used RS.

5 15. The method of claim 13 or 14, wherein the measurement configuration information comprises a triggering event of measurement reporting, and the measurement result is reported if the triggering event is initiated after the terminal determines whether to report the measurement result or not according to the triggering event of measurement reporting.

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16. The method of claim 15, wherein acquiring, by the network device, the measurement result comprises:

receiving, by the network device, indication information from the terminal, the indication information being used to indicate the measurement result;

15 or,

transmitting, by the network device, a request for reporting the measurement result to the terminal, and receiving, by the network device, the measurement result reported by the terminal in response to the request for reporting the measurement result.

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17. A network device, comprising a processing unit and a communication unit, wherein the processing unit is configured to:

25 transmit, through the communication unit, measurement configuration information to a terminal, the measurement configuration information comprising a measurement configuration of ~~a~~ the terminal in an inactive state, the measurement configuration information being used for the terminal to acquire a measurement result; acquire, through the communication unit, the measurement result, the measurement result being reported by the terminal that is switched to a connected state; and

30 pre-configure the terminal in the connected state according to the measurement result, the pre-configuring including configuring a secondary carrier and/or a secondary service node (SN).

18. The network device of claim 17, wherein the measurement configuration information comprises configuration information of a Reference Signal (RS), and the RS comprises an idle-state used RS and/or a connected-state used RS.

5 ~~19. The network device of claim 17 or 18, wherein the communication unit is further configured to acquire the measurement result, the measurement result being reported by the terminal that is switched to a connected state.~~

10 ~~20~~19. The network device of ~~any one of claims 17-19~~claim 17 or 18, wherein signaling bearing the measurement configuration information is Radio Resource Control (RRC) connection release signaling or RRC reconfiguration signaling; and
the measurement configuration information comprises at least one of a measurement frequency, a measurement pattern, valid measurement time and a valid
15 measurement area.