

WHAT IS CLAIMED IS:

1. A method for minimization of drive tests (MDT) measurement, comprising:

determining an identifier of a target network environment to be measured, the target network environment corresponding to a target terminal device;

sending MDT configuration information to the target terminal device to enable the terminal device to determine the identifier of the target network environment from identifiers of detected network environments and make measurement for information of the target network environment according to the identifier of the target network environment, the MDT configuration information comprising the identifier of the target network environment; and

receiving measurement information of the target network environment from the target terminal device, the measurement information of the target network environment being associated with mobile network signal information of the target terminal device,

wherein making measurement for the information of the target network environment according to the identifier of the target network environment comprises at least one of following manners:

in response to that there are a plurality of identifiers of the target network environments, measuring signal strengths of the target network environments according to the plurality of identifiers of the target network environments, and determining an identifier of a target network environment which provides a maximum measured signal strength as the measurement information of the target network environment; and

in response to that there is one or more identifiers of the target network environment and that the target network environment corresponds to a plurality of network devices, measuring one or more signal strengths of the target network environment according to the one or more identifiers of the target network environment, and determining an identifier of a network device with a maximum signal strength as the measurement information of the target network environment.

2. The method of claim 1, wherein the target network environment comprises a target

bluetooth (BT) network environment and/or a target wireless fidelity (WiFi) network environment.

3. The method of claim 2, wherein

when the target network environment comprises the target WiFi network environment, the identifier of the target network environment comprises a service set identifier (SSID) of the target WiFi network environment; or

when the target network environment comprises the target BT network environment, the identifier of the target network environment comprises a name of the target BT network environment.

4. The method of any one of claims 1-3, wherein

the MDT configuration information is carried in LoggedMeasurementConfiguration signaling; or,

the MDT configuration information is carried in radio resource control (RRC) ConnectionReconfiguration signaling.

5. A method for minimization of drive tests (MDT) measurement, comprising:

receiving MDT configuration information from a base station, the MDT configuration information comprising an identifier of a target network environment;

making measurement for information of the target network environment according to the identifier of the target network environment to obtain measurement information of the target network environment; and

sending the measurement information of the target network environment to the base station,

wherein making measurement for the information of the target network environment according to the identifier of the target network environment comprises at least one of following manners:

in response to that there are a plurality of identifiers of the target network

environments, measuring signal strengths of the target network environments according to the plurality of identifiers of the target network environments, and determining an identifier of a target network environment which provides a maximum measured signal strength as the measurement information of the target network environment; and

in response to that there is one or more identifiers of the target network environment and that the target network environment corresponds to a plurality of network devices, measuring one or more signal strengths of the target network environment according to the one or more identifiers of the target network environment, and determining an identifier of a network device with a maximum signal strength as the measurement information of the target network environment.

6. The method of claim 5, wherein the target network environment comprises a target bluetooth (BT) network environment and/or a target wireless fidelity (WiFi) network environment.

7. The method of claim 6, wherein

when the target network environment comprises the target WiFi network environment, the identifier of the target network environment comprises a service set identifier (SSID) of the target WiFi network environment; or

when the target network environment comprises the target BT network environment, the identifier of the target network environment comprises a name of the target BT network environment.

~~8. The method of claim 5, wherein there are a plurality of identifiers of the target network environments; and making measurement for the information of the target network environment according to the identifier of the target network environment to obtain the measurement information of the target network environment comprises:~~
~~measuring signal strengths of the target network environments according to the plurality of identifiers of the target network environments, and~~

~~determining an identifier of a target network environment which provides a maximum measured signal strength as the measurement information of the target network environments.~~

~~9. The method of claim 5, wherein there is one or more identifiers of the target network environment, and the target network environment corresponds to a plurality of network devices; and~~

~~making measurement for the information of the target network environment according to the identifier of the target network environment to obtain the measurement information of the target network environment comprises:~~

~~measuring one or more signal strengths of the target network environments according to the one or more identifiers of the target network environments, and~~

~~determining an identifier of a network device with a maximum signal strength as the measurement information of the target network environments.~~

108. The method of any one of claims 5-97, wherein

the MDT configuration information is carried in LoggedMeasurementConfiguration signaling; or,

the MDT configuration information is carried in radio resource control (RRC) ConnectionReconfiguration signaling.

119. A device for minimization of drive tests (MDT) measurement, the device being a base station and the device comprising:

a determination module, configured to determine an identifier of a target network environment to be measured, the target network environment corresponding to a target terminal device;

a sending module, configured to send MDT configuration information to the target terminal device to enable the terminal device to determine the identifier of the target network environment from identifiers of detected network environments and make measurement for information of the target network environment according to the identifier of the target

network environment, the MDT configuration information comprising the identifier of the target network environment; and

a receiving module, configured to receive measurement information of the target network environment from the target terminal device, the measurement information of the target network environment being associated with mobile network signal information of the target terminal device,

wherein making measurement for the information of the target network environment according to the identifier of the target network environment comprises at least one of following manners:

in response to that there are a plurality of identifiers of the target network environments, measuring signal strengths of the target network environments according to the plurality of identifiers of the target network environments, and determining an identifier of a target network environment which provides a maximum measured signal strength as the measurement information of the target network environment; and

in response to that there is one or more identifiers of the target network environment and that the target network environment corresponds to a plurality of network devices, measuring one or more signal strengths of the target network environment according to the one or more identifiers of the target network environment, and determining an identifier of a network device with a maximum signal strength as the measurement information of the target network environment.

4210. The device of claim 449, wherein the target network environment comprises a target bluetooth (BT) network environment and/or a target wireless fidelity (WiFi) network environment.

4311. The device of claim 4210, wherein, when the target network environment comprises the target WiFi network environment, the identifier of the target network environment comprises a service set identifier (SSID) of the target WiFi network environment; and when the target network environment comprises the target BT network environment, the identifier

of the target network environment comprises a name of the target BT network environment.

~~1412.~~ The device of any one of claims ~~149-1311~~, wherein

the MDT configuration information is carried in LoggedMeasurementConfiguration signaling; or,

the MDT configuration information is carried in radio resource control (RRC) ConnectionReconfiguration signaling.

~~1513.~~ A device for minimization of drive tests (MDT) measurement, the device being a target terminal device and the device comprising:

a receiving module, configured to receive MDT configuration information from a base station, the MDT configuration information comprising an identifier of a target network environment;

a measurement module, configured to make measurement for information of the target network environment according to the identifier of the target network environment to obtain measurement information of the target network environment; and

a sending module, configured to send the measurement information of the target network environment to the base station,

wherein the measurement module is further configured to, after the MDT configuration information is received, determine the identifier of the target network environment from identifiers of detected network environments and make measurement for information of the target network environment according to the identifier of the target network environment,

wherein making measurement for the information of the target network environment according to the identifier of the target network environment comprises at least one of following manners:

in response to that there are a plurality of identifiers of the target network environments, measuring signal strengths of the target network environments according to the plurality of identifiers of the target network environments, and determining an identifier of a target network environment which provides a maximum measured signal strength as the

measurement information of the target network environment; and

in response to that there is one or more identifiers of the target network environment and that the target network environment corresponds to a plurality of network devices, measuring one or more signal strengths of the target network environment according to the one or more identifiers of the target network environment, and determining an identifier of a network device with a maximum signal strength as the measurement information of the target network environment.

4614. The device of claim 4513, wherein the target network environment comprises a target bluetooth (BT) network environment and/or a target wireless fidelity (WiFi) network environment.

4715. The device of claim 4614, wherein, when the target network environment comprises the target WiFi network environment, the identifier of the target network environment comprises a service set identifier (SSID) of the target WiFi network environment; and when the target network environment comprises the target BT network environment, the identifier of the target network environment comprises a name of the target BT network environment.

~~18. The device of claim 15, wherein there are a plurality of identifiers of the target network environments; and the measurement module is configured to:~~

~~measure signal strengths of the target network environments according to the plurality of identifiers of the target network environments; and
determine an identifier of a target network environment which provides a maximum measured signal strength as the measurement information of the target network environments.~~

~~19. The device of claim 15, wherein there is one or more identifiers of the target network environment, and the target network environment corresponds to a plurality of network devices; and the measurement module is configured to:~~

~~measure one or more signal strengths of the target network environment according to the one~~

~~or more identifiers of the target network environment; and~~
~~determine an identifier of a network device with a maximum signal strength as the~~
~~measurement information of the target network environment.~~

~~2016.~~ The device of any one of claims ~~1513-1915~~, wherein

the MDT configuration information is carried in LoggedMeasurementConfiguration signaling; or,

the MDT configuration information is carried in radio resource control (RRC) ConnectionReconfiguration signaling.

~~2417.~~ A base station, comprising a processor and a memory, wherein at least one instruction, at least one segment of program, a code set or an instruction set is stored in the memory, and the at least one instruction, the at least one segment of program, the code set or the instruction set is loaded and executed by the processor to implement the method for minimization of drive tests (MDT) measurement of any one of claims ~~1-43~~.

~~2218.~~ A target terminal device, comprising a processor and a memory, wherein at least one instruction, at least one segment of program, a code set or an instruction set is stored in the memory, and the at least one instruction, the at least one segment of program, the code set or the instruction set is loaded and executed by the processor to implement the method for minimization of drive tests (MDT) measurement of any one of claims ~~5-107~~.

~~2319.~~ A computer-readable storage medium, in which at least one instruction, at least one segment of program, a code set or an instruction set is stored, the at least one instruction, the at least one segment of program, the code set or the instruction set being loaded and executed by a processor to implement the method for minimization of drive tests (MDT) measurement of any one of claims ~~1-43~~ or the method for MDT measurement of any one of claims ~~5-107~~.

~~2420.~~ A system for minimization of drive tests (MDT) measurement, comprising a base

station and a target terminal device, wherein

the base station is the base station of any one of claims ~~11-14~~ 11 and ~~21~~; and

the target terminal device is the target terminal device of any one of claims ~~15~~ 13-~~20~~ 15 and ~~22~~.