

CLAIMS

What is claimed is:

1. A locating method in a multi-connectivity network, comprising:
determining, by a terminal device, a position of the terminal device using a first radio
5 access technology (RAT); and
sending, by the terminal device, a locating message of the terminal device to a location
management function entity over an air interface through signaling of a second RAT,
wherein the locating message of the terminal device comprises:
a first locating parameter of each cell of at least one cell of a first node, the first node
10 corresponding to the first RAT; and
a second locating parameter of each cell of at least one cell of a second node, the
second node corresponding to the second RAT.
2. The locating method according to claim 1, wherein the first node is a secondary
node providing a service for the terminal device in the multi-connectivity network.
- 15 3. The locating method according to claim 1 or 2, wherein the second node is a
primary node providing a service to the terminal device in the multi-connectivity network.
4. The locating method according to claim 3, wherein the sending, by the terminal
device, a locating message of the terminal device to a location management function entity
over an air interface through signaling of a second RAT comprises:
20 sending, by the terminal device, the locating message of the terminal device to the
location management function entity through a radio resource control (RRC) layer of the
primary node.
5. The locating method according to any one of claims 1 to 4, wherein the locating
message of the terminal device comprises at least one of the following parameters: uplink
25 and downlink time differences of arrival (TDoA), or a cell identifier (ID).
6. The locating method according to any one of claims 1 to 5, wherein the first RAT is

Long Term Evolution (LTE), and the second RAT is New Radio (NR).

7. A locating method in a multi-connectivity network, comprising:

receiving, by a location management function entity, a locating message of a terminal device sent by the terminal device over an air interface through signaling of a second radio access technology (RAT); and

locating, by the location management function entity, the terminal device according to the locating message of the terminal device,

wherein the locating message comprises:

a first locating parameter of each cell of at least one cell of a first node, the first node corresponding to a first RAT; and

a second locating parameter of each cell of at least one cell of a second node, the second node corresponding to the second RAT,

wherein the terminal device is located through the first RAT.

8. The locating method according to claim 7, wherein the first node is a secondary node providing a service for the terminal device in the multi-connectivity network.

9. The locating method according to claim 7 or 8, wherein the second node is a primary node providing a service for the terminal device in the multi-connectivity network.

10. The locating method according to any one of claims 7 to 9, wherein the locating message of the terminal device comprises a plurality of locating parameters of a plurality of cells of the first node, and the method further comprises:

selecting, by the location management function entity, a target cell from the plurality of cells; and

the locating, by the location management function entity, the terminal device according to the locating message of the terminal device comprises:

locating, by the location management function entity, the terminal device according to a locating parameter of the target cell.

11. The locating method according to any one of claims 7 to 10, wherein the locating message of the terminal device comprises at least one of the following parameters: uplink and downlink time differences of arrival (TDoA), or a cell identifier (ID).

12. A terminal device, configured to perform the method according to any one of
5 claims 1 to 6.

13. A location management function entity, configured to perform the method according to any one of claims 7 to 11.