

CLAIMS

~~What is claimed is:~~

1. A positioning method, comprising:

determining, by a first network device, a first time, wherein the first time is a scheduled time

at which a terminal device is to be positioned; and

sending, by the first network device, first indication information, wherein the first indication information is used for enabling the terminal device to enter a connected state at the first time or before the first time.

2. The method according to claim 1, wherein the sending, by the first network device, first indication information comprises:

sending, by the first network device, the first indication information to the terminal device, wherein the first indication information indicates the terminal device to enter the connected state at the first time or before the first time; or

sending, by the first network device, the first indication information to an access network device, wherein the first indication information indicates the access network device to page the terminal device at the first time or before the first time.

3. The method according to claim 1 or 2, wherein the first indication information comprises information about the first time; or

the first indication information comprises information about a second time, and the second time is before the first time.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

sending, by the first network device, second indication information to a second network device, wherein the second indication information indicates the second network device to position the terminal device.

5. The method according to any one of claims 1 to 4, wherein the determining, by a first network device, a first time comprises:

obtaining, by the first network device, the information about the first time from a third network device; or

locally obtaining, by the first network device, the information about the first time.

6. A positioning method, comprising:

receiving, by a terminal device, first indication information ~~sent by~~from a first network device, wherein the first indication information is used for enabling the terminal device to enter a connected state at a first time or before the first time, and the first time is a scheduled time at which the terminal device is to be positioned; and

entering, by the terminal device, the connected state based on the first indication information.

7. The method according to claim 6, wherein the first indication information comprises information about the first time, entering the connected state based on the first indication information comprises: the terminal device enters the connected state at the first time or a third time based on the first indication information, the third time is determined by the terminal device, and the third time is before the first time; or

the first indication information comprises information about a second time, the second time is before the first time, and entering the connected state based on the first indication information comprises: entering the terminal device enters the connected state at the second time based on the first indication information.

8. The method according to claim 6 or 7, wherein the method further comprises:

responding, by the terminal device, to a positioning procedure initiated by a second network device at the first time.

9. The method according to any one of claims 6 to 8, wherein the method further comprises:

sending, by the terminal device, third indication information to the second network device, wherein the third indication information indicates that the terminal device has entered the connected state.

~~10. A positioning method, comprising:~~

~~receiving, by a second network device, third indication information, wherein the third indication information indicates that a terminal device has entered a connected state, the third indication information is sent by the terminal device after a first network device sends first indication information, the first indication information is used for enabling the terminal device to enter the connected state at a first time or before the first time, and the first time is a scheduled time at which the terminal device is to be positioned; and~~

~~initiating, by the second network device, a positioning procedure based on the third indication information, wherein the positioning procedure is used to position the terminal device.~~

~~11. A network device, comprising:~~

a processing unit, configured to determine a first time, wherein the first time is a scheduled time at which a terminal device is to be positioned; and

a transceiver unit, configured to send first indication information, wherein the first indication information is used for enabling the terminal device to enter a connected state at the first time or before the first time.

12. The network device according to claim 11, wherein the transceiver unit is specifically configured to:

send the first indication information to the terminal device, wherein the first indication information indicates the terminal device to enter the connected state at the first time or before the first time; or

send the first indication information to an access network device, wherein the first indication information indicates the access network device to page the terminal device at the first time or before the first time.

13. The network device according to claim 11 or 12, wherein

the first indication information comprises information about the first time; or

the processing unit is further configured to determine a second time based on the first time, wherein the second time is before the first time, and the first indication information comprises information about the second time.

14. The network device according to any one of claims 11 to 13, wherein the transceiver unit is further configured to send second indication information to a second network device, wherein the second indication information indicates the second network device to position the terminal device.

15. The network device according to any one of claims 11 to 14, wherein the transceiver unit is further configured to send a first request message to a third network device, wherein the first request message requests the information about the first time; and

the transceiver unit is further configured to receive a first response message sent by the third network device, wherein the first response message comprises the information about the first time.

16. The device according to any one of claims 11 to 14, wherein the processing unit is configured to query the information about the first time locally from the network device.

17. A terminal device, comprising:

a transceiver unit, configured to receive first indication information sent by a first network

device, wherein the first indication information is used for enabling the terminal device to enter a connected state at a first time or before the first time, and the first time is a scheduled time at which the terminal device is to be positioned; and

~~a processing unit, configured to enable the terminal device to enter the connected state based on the first indication information.~~

18. The terminal device according to claim 17, wherein

~~the first indication information comprises information about the first time, and the processing unit is specifically configured to enable the terminal device to enter the connected state at the first time; or~~

~~the processing unit is configured to determine a third time based on the first time, wherein the third time is before the first time, and the processing unit is further configured to enable the terminal device to enter the connected state at the third time.~~

19. The terminal device according to claim 17, wherein the first indication information comprises information about a second time, and the processing unit is specifically configured to enable the terminal device to enter the connected state at the second time, wherein the second time is before the first time.

20. The terminal device according to any one of claims 17 to 19, wherein

~~the processing unit is further configured to respond to a positioning procedure initiated by a second network device at the first time.~~

21. The terminal device according to any one of claims 17 to 20, wherein

~~the transceiver unit is further configured to send third indication information to the second network device, wherein the third indication information indicates that the terminal device has entered the connected state.~~

22. A network device, comprising:

~~a transceiver unit, configured to receive third indication information, wherein the third indication information indicates that a terminal device has entered a connected state, the third indication information is sent by the terminal device after a first network device sends first indication information, the first indication information is used for enabling the terminal device to enter the connected state at a first time or before the first time, and the first time is a scheduled time at which the terminal device is to be positioned; and~~

~~a processing unit, configured to initiate a positioning procedure based on the third indication~~

information, wherein the positioning procedure is used to position the terminal device.

2310. A system, comprising a first network device and a terminal device~~second network device~~, wherein

the first network device is configured to perform the method according to any one of claims

1 to 5; and

the terminal device~~second network device~~ is configured to perform the method according to any one of claims 6 to 9~~claim 10~~.

2411. A network device, comprising:

a memory, configured to store a computer program; and

a processor, configured to invoke the computer program from the memory and run the computer program, to enable the network device to means for implementing the method according to any one of claims 1 to 5;

12. A terminal device, comprising means for implementing the method according to any one of claims 6 to 9.

~~enable the network device to implement the method according to any one of claims 6 to 9; or
enable the network device to implement the method according to claim 10.~~

2513. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program; and when the computer program runs,

an apparatus is enabled to perform the method according to any one of claims 1 to 5; or
an apparatus is enabled to perform the method according to any one of claims 6 to 9; ~~or~~
~~an apparatus is enabled to perform the method according to claim 10.~~

2614. A computer program product, wherein the computer program product comprises computer program code, and when the computer program code is run by a computer,

the computer is enabled to perform the method according to any one of claims 1 to 5; or
the computer is enabled to perform the method according to any one of claims 6 to 9; ~~or~~
~~the computer is enabled to perform the method according to claim 10.~~

2715. A chip, wherein a processing circuit is disposed on the chip; and

the processing circuit is configured to perform the method according to any one of claims 1

to 5; or

the processing circuit is configured to perform the method according to any one of claims 6

to 9;

~~the processing circuit is configured to perform the method according to claim 10.~~