

CLAIMS

What is claimed is:

1. A wireless communication method, comprising:

determining, by a network device, a parameter set for performing paging or
5 broadcast message transmission to a terminal device, wherein the determined parameter
set is one of a first parameter set and a second parameter set, the first parameter set
comprises a first subcarrier spacing used for performing paging or broadcast message
transmission, the second parameter set comprises a second subcarrier spacing used for
performing paging or broadcast message transmission, and values of at least one type of
10 parameter of the two parameter sets are different;

performing, by the network device, paging or broadcast message transmission to the
terminal device at a specific frequency point using the determined parameter set.

2. The method as claimed in claim 1, wherein determining, by the network device,
the parameter set for performing paging or broadcast message transmission to the terminal
15 device comprises:

determining, by the network device, a scheme for performing paging or broadcast
message transmission to the terminal device, wherein the determined scheme is one of a
first scheme and a second scheme, wherein

in the first scheme, the first parameter set is used for performing paging or broadcast
20 message transmission at a specific frequency point, and in the second scheme, the second
parameter set is used for performing paging or broadcast message transmission at a
specific frequency point; and

wherein performing, by the network device, paging or broadcast message
transmission to the terminal device at a specific frequency point using the determined
25 parameter set comprises:

performing, by the network device, paging or broadcast message transmission to the
terminal device at the specific frequency point according to the determined scheme.

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

the first parameter set further comprises a first time location used for performing
30 paging or broadcast message transmission;

the second parameter set further comprises a second time location used for performing paging or broadcast message transmission.

4. The method according to claim 3, wherein the performing, by the network device, paging or broadcast message transmission to the terminal device comprises:

5 transmitting, at the first time location or the second time location, a PDCCH used for paging.

5. The method according to any one of claims 1 to 4, wherein the first parameter set refers to a parameter set used for actually sending a synchronization signal block; and the second parameter set does not refer to the parameter set used for actually sending the synchronization signal block.

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

transmitting, by the network device, first information to the terminal device, wherein the first information is used for notifying the first parameter set and/or the second parameter set.

15 7. A wireless communication method, comprising:

determining, by a terminal device, a parameter set for a network device to perform paging or broadcast message transmission to the terminal device, wherein the determined parameter set is one of a first parameter set and a second parameter set, the first parameter set comprises a first subcarrier spacing used for performing paging or broadcast message transmission, the second parameter set comprises a second subcarrier spacing used for performing paging or broadcast message transmission, and values of at least one type of parameter of the two parameter sets are different;

monitoring, by the terminal device at a specific frequency point using the determined parameter set, paging performed by the network device or the broadcast message transmitted by the network device to the terminal device.

8. The method as claimed in claim 7, wherein determining, by the terminal device, the parameter set for the network device to perform paging or broadcast message transmission to the terminal device comprises:

determining, by the terminal device, a scheme in which the network device performs paging or broadcast message transmission to the terminal device, wherein the determined

scheme is one of a first scheme and a second scheme, wherein

in the first scheme, the first parameter set is used for performing paging or broadcast message transmission at a specific frequency point, and in the second scheme, the second parameter set is used for performing paging or broadcast message transmission at a
5 specific frequency point; and

monitoring, by the terminal device at a specific frequency point using the determined parameter set, paging performed by the network device or the broadcast message transmitted by the network device to the terminal device comprises:

monitoring, by the terminal device at the specific frequency point according to the
10 determined scheme, paging performed by the network device or the broadcast message transmitted by the network device to the terminal device.

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

the first parameter set further comprises a first time location used for performing paging or broadcast message transmission;

15 the second parameter set further comprises a second time location used for performing paging or broadcast message transmission.

10. The method according to claim 9, wherein the monitoring, by the terminal device, paging performed by the network device or the broadcast message transmitted by the network device to the terminal device comprises:

20 monitoring, by the terminal device at the first time location or the second time location, a PDCCH used for paging.

11. The method according to claim 9, wherein the first time location is at least part of symbols occupied by a synchronization signal block actually transmitted at the specific frequency point.

25 12. The method according to any one of claims 7 to 11, wherein the method further comprises:

receiving, by the terminal device, first information transmitted by the network device, wherein the first information is used for:

notifying the scheme for performing paging or broadcast message transmission, or

30 notifying the first parameter set and/or the second parameter set.

13. The method according to claim 12, wherein the first information is carried in remaining minimum system information RMSI or a radio resource control RRC message.

14. The method according to any one of claims 7 to 13, wherein the first parameter set refers to a parameter set used for actually sending a synchronization signal block; and
5 the second parameter set does not refer to the parameter set used for actually sending the synchronization signal block.

15. A network device, comprising a processing unit and a communications unit, wherein

the processing unit is configured to determine a parameter set for performing paging
10 or broadcast message transmission to a terminal device, wherein the determined parameter set is one of a first parameter set and a second parameter set, the first parameter set comprises a first subcarrier spacing used for performing paging or broadcast message transmission, the second parameter set comprises a second subcarrier spacing used for performing paging or broadcast message transmission, and values of at least one type of
15 parameter of the two parameter sets are different;

the communication unit is configured to perform paging or broadcast message transmission to the terminal device at a specific frequency point using the determined parameter set.

16. The network device according to claim 15, wherein

20 the processing unit is configured to determine a scheme for performing paging or broadcast message transmission to a terminal device, wherein the determined scheme is one of a first scheme and a second scheme, wherein

in the first scheme, the first parameter set is used for performing paging or broadcast message transmission at a specific frequency point, and in the second scheme, the second
25 parameter set is used for performing paging or broadcast message transmission at a specific frequency point; and

the communications unit is further configured to perform paging or broadcast message transmission to the terminal device at the specific frequency point according to the determined scheme.

30 17. The network device according to claim 15 or 16, wherein

the first parameter set further comprises a first time location used for performing paging or broadcast message transmission;

the second parameter set further comprises a second time location used for performing paging or broadcast message transmission.

5 18. The network device according to claim 17, wherein the first time location is at least part of symbols occupied by a synchronization signal block actually transmitted at the specific frequency point.

19. The network device according to any one of claims 15 to 18, wherein the communications unit is further configured to:

10 transmit first information to the terminal device, wherein the first information is used for:

notifying the scheme for performing paging or broadcast message transmission, or
notifying the first parameter set and/or the second parameter set.

wherein the first information is carried in remaining minimum system information
15 RMSI or a radio resource control RRC message.

20. The network device according to any one of claims 15 to 19, wherein the first parameter set refers to a parameter set used for actually sending a synchronization signal block; and the second parameter set does not refer to the parameter set used for actually sending the synchronization signal block.

20 21. A terminal device, comprising a processing unit and a communications unit, wherein

the processing unit is configured to: determine a parameter set for a network device to perform paging or broadcast message transmission to the terminal device, wherein the determined parameter set is one of a first parameter set and a second parameter set, the
25 first parameter set comprises a first subcarrier spacing used for performing paging or broadcast message transmission, the second parameter set comprises a second subcarrier spacing used for performing paging or broadcast message transmission, and values of at least one type of parameter of the two parameter sets are different;

the communications unit is configured to: monitor, at a specific frequency point
30 using the determined parameter set, paging performed by the network device or the

broadcast message transmitted by the network device to the terminal device.

22. The terminal device according to claim 21, wherein

the processing unit is configured to: determine a scheme in which the network device performs paging or broadcast message transmission to the terminal device, wherein the
5 determined scheme is one of a first scheme and a second scheme, wherein

in the first scheme, the first parameter set is used for performing paging or broadcast message transmission at a specific frequency point, and in the second scheme, the second parameter set is used for performing paging or broadcast message transmission at a specific frequency point; and

10 the communications unit is further configured to: monitor, at the specific frequency point according to the determined scheme, paging performed by the network device or the broadcast message transmitted by the network device to the terminal device.

23. The terminal device according to claim 21 or 22, wherein

the first parameter set further comprises a first time location used for performing
15 paging or broadcast message transmission;

the second parameter set further comprises a second time location used for performing paging or broadcast message transmission.

24. The terminal device according to claim 23, wherein the communications unit is further configured to:

20 monitor, at the first time location or the second time location, to a PDCCH used for paging.

25. The terminal device according to claim 23, wherein the first time location is at least part of symbols occupied by a synchronization signal block actually transmitted at the specific frequency point.

26. The terminal device according to any one of claims 21 to 25, wherein the communications unit is further configured to: receive first information transmitted by the network device, wherein the first information is used for:

notifying the scheme for performing paging or broadcast message transmission, or
notifying the first parameter set and/or the second parameter set.

27. The terminal device according to claim 26, wherein the first information is carried in remaining minimum system information RMSI or a radio resource control RRC message.

28. The terminal device according to any one of claims 21 to 27, wherein the first
5 parameter set refers to a parameter set used for actually sending a synchronization signal block; and the second parameter set does not refer to the parameter set used for actually sending the synchronization signal block.