

CLAIMS

1. A method for information transmission, comprising:

receiving (S210), by a terminal device, a first synchronization signal block sent by a network device, wherein the first synchronization signal block comprises a first physical broadcast channel, PBCH, and information carried on the first PBCH comprises first information and second information;

wherein the first information is configured to indicate whether remaining minimum system information, RMSI, is present, wherein the second information is configured to indicate resource information of a second synchronization signal block if the first information indicates that RMSI is not present, and wherein a part or all of an existing CORESET indication field carried on the first PBCH is used to carry the second information;

obtaining (S220), by the terminal device, the resource information of the second synchronization signal block based on the second information if the first information indicates that RMSI is not present; and

receiving, by the terminal device, the second synchronization signal block according to the resource information of the second synchronization signal block.

2. The method according to claim 1, wherein the second synchronization signal block comprises a second PBCH, and information carried on the second PBCH comprises third information and fourth information,

wherein the third information is configured to indicate whether RMSI is present, and

wherein the fourth information is configured to indicate a resource set carrying control information for receiving RMSI if the third information indicates that RMSI is present.

3. The method according to claim 2, wherein the first PBCH comprises a first field for carrying the second information, and the second PBCH comprises a second field identical to the first field and for carrying the fourth information.

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

a field for carrying the first information in the first PBCH and a field for carrying the third information in the second PBCH are identical.

5. The method according to any one of claims 2 to 4, wherein the method further comprises:

if the third information indicates that RMSI is present, obtaining, by the terminal device, RMSI according to the fourth information.

6. The method according to claim 5, wherein the obtaining, by the terminal device, RMSI according to the fourth information comprises:

obtaining, scheduling information of a physical downlink shared channel PDSCH, by monitoring a physical downlink control channel PDCCH according to the resource set indicated by the fourth information; and

obtaining, according to the scheduling information of the PDSCH, RMSI carried on the PDSCH.

7. The method according to any one of claims 1 to 6, wherein the resource information of the second synchronization signal block is frequency resource location information of the second synchronization signal block or frequency location offset information between the second synchronization signal block and the first synchronization signal block.

8. The method according to any one of claims 1 to 7, wherein the RMSI comprises at least one of the following:

a paging configuration parameter, cell selection information, and access control information.

9. A terminal device for information transmission, comprising:

a communications module (410), configured to receive a first synchronization signal block sent by a network device, wherein the first synchronization signal block comprises a first physical broadcast channel PBCH, and information carried on the first PBCH comprises first information and second information;

wherein the first information is configured to indicate whether remaining minimum system information, RMSI, is present, wherein the second information is configured to indicate resource information of a second synchronization signal block if the first information indicates that RMSI is not present, and wherein a part or all of an existing CORESET indication field carried on the first PBCH is used to carry the second information,

an obtaining module (420), configured to obtain the resource information of the second synchronization signal block based on the second information if the first information indicates that RMSI is not present, and

wherein the communications module (410) is further configured to receive the second synchronization signal block according to the resource information of the second synchronization signal block.

10. The terminal device according to claim 9, wherein the second synchronization signal block comprises a second PBCH, and information carried on the second PBCH comprises third information and fourth information,

wherein the third information is configured to indicate whether RMSI is present, and

wherein the fourth information is configured to indicate a resource set carrying control information for receiving RMSI if the third information indicates that RMSI is present.

11. The terminal device according to claim 10, wherein the first PBCH comprises a first field for carrying the second information, and the second PBCH comprises a second field identical to the first field and for carrying the fourth information.

12. The terminal device according to claim 10 or 11, wherein

a field for carrying the first information in the first PBCH and a field for carrying the third information in the second PBCH are identical.

13. The terminal device according to any one of claims 10 to 12, wherein the obtaining module (420) is further configured to:

if the third information indicates that RMSI is present, obtain RMSI according to the fourth information.

14. The terminal device according to claim 13, wherein the obtaining module (420) is specifically configured to:

obtain scheduling information of a physical downlink shared channel PDSCH by monitoring a physical downlink control channel PDCCH according to the resource set indicated by the fourth information; and

obtain, according to the scheduling information of the PDSCH, RMSI carried on the PDSCH.

15. The terminal device according to any one of claims 9 to 14, wherein the resource information of the second synchronization signal block is frequency resource location information of the second synchronization signal block or frequency location offset information between the second synchronization signal block and the first synchronization signal block.

16. The terminal device according to any one of claims 9 to 15, wherein the RMSI comprises at least one of the following:

a paging configuration parameter, cell selection information, and access control information.

17. A method for information transmission, comprising:

determining (S310), by a network device, that remaining minimum system information, RMSI, is not present; and

sending (S320), by the network device, a first synchronization signal block to a terminal device, wherein the first synchronization signal block comprises a first physical broadcast channel, PBCH, and information carried on the first PBCH comprises first information and second information,

wherein the first information is configured to indicate whether RMSI is present, wherein the second information is configured to indicate resource information

of a second synchronization signal block if the first information indicates that RMSI is not present, and wherein a part or all of an existing CORESET indication field carried on the first PBCH is used to carry the second information.

18. The method according to claim 17, wherein

the second synchronization signal block comprises a second PBCH, and information carried on the second PBCH comprises third information and fourth information,

wherein the third information is configured to indicate whether RMSI is present, and

wherein the fourth information is configured to indicate a resource set carrying control information for receiving RMSI if the third information indicates that RMSI is present.

19. The method according to claim 18, wherein the first PBCH comprises a first field for carrying the second information, and the second PBCH comprises a second field identical to the first field and for carrying the fourth information.

20. The method according to claim 18 or 19, wherein

a field for carrying the first information in the first PBCH and a field for carrying the third information in the second PBCH are identical.

21. The method according to any one of claims 17 to 20, wherein the resource information of the second synchronization signal block is frequency resource location information of the second synchronization signal block or frequency location offset information between the second synchronization signal block and the first synchronization signal block.

22. The method according to any one of claims 17 to 21, wherein the RMSI comprises

at least one of the following:

a paging configuration parameter, cell selection information, and access control information.

23. A network device for information transmission, comprising:

a determining module (510), configured to determine that remaining minimum system information, RMSI, is not present; and

a communication module (520), configured to send a first synchronization signal block to a terminal device, wherein the first synchronization signal block comprises a first physical broadcast channel, PBCH, and information carried on the first PBCH comprises first information and second information,

wherein the first information is configured to indicate whether RMSI is present, wherein the second information is configured to indicate resource information of a second synchronization signal block if the first information indicates that RMSI is not present, and wherein a part or all of an existing CORESET indication field carried on the first PBCH is used to carry the second information.

24. The network device according to claim 23, wherein

the second synchronization signal block comprises a second PBCH, and information carried on the second PBCH comprises third information and fourth information,

wherein the third information is configured to indicate whether RMSI is present, and

wherein the fourth information is configured to indicate a resource set carrying control information for receiving RMSI if the third information indicates that RMSI is present.

25. The network device according to claim 24, wherein the first PBCH comprises a first field for carrying the second information, and the second PBCH comprises a

second field identical to the first field and for carrying the fourth information.

26. The network device according to claim 24 or 25, wherein

a field for carrying the first information in the first PBCH and a field for carrying the third information in the second PBCH are identical.

27. The network device according to any one of claims 23 to 26, wherein the resource information of the second synchronization signal block is frequency resource location information of the second synchronization signal block or frequency location offset information between the second synchronization signal block and the first synchronization signal block.

28. The network device according to any one of claims 23 to 27, wherein the RMSI comprises at least one of the following:

a paging configuration parameter, cell selection information, and access control information.