

WHAT IS CLAIMED IS:

1. A method for transmitting configuration information, comprising:

sending, by a base station, configuration information respectively for a first type of user equipments (UEs) and a second type of UEs; wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs comprise respective initial bandwidth part (BWP) configurations, and the configuration information for the first type of UEs and the configuration information for the second type of UEs are respectively carried in a system information block SIB1;

wherein an access configuration of the first type of UEs indicated by the configuration information is independent of an access configuration of the second type of UEs indicated by the configuration information;

the access configuration of the first type of UEs is configured to be used by the first type of UEs for network access, and the access configuration of the second type of UEs is configured to be used by the second type of UEs for network access.

2. The method of claim 1, wherein the access configuration of the first type of UEs being independent of the access configuration of the second type of UEs comprises:

an initial access configuration of the first type of UEs being different from an initial access configuration of the second type of UEs.

3. The method of claim 2, wherein the initial access configuration comprises the BWP configuration;

wherein the access configuration of the first type of UEs being independent of the access configuration of the second type of UEs comprises one of the followings:

an initial BWP configuration of the first type of UEs being different from an initial BWP configuration of the second type of UEs;

the first type of UEs and the second type of UEs having a same initial BWP configuration indicating different access resources on a same initial BWP;

an initial BWP configuration of the first type of UEs and an initial BWP configuration of the second type of UEs being the same in part and different in the remaining part.

4. The method of claim 3, wherein the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs being the same in part and different in the remaining part comprises one of the followings:

the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs having a same uplink initial BWP configuration and different downlink initial BWP configurations;

the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs having a same downlink initial BWP configuration and different uplink initial BWP configurations.

5. The method of claim 1, wherein the access configuration comprises a random access configuration for random access;

wherein the access configuration of the first type of UEs indicated by the configuration information being independent of the access configuration of the second type of UEs comprises:

a random access configuration of the first type of UEs being different from a random access configuration of the second type of UEs.

6. The method of claim 1, wherein the access configuration comprises a paging configuration for sending a paging message;

wherein the access configuration of the first type of UEs indicated by the configuration information being independent of the access configuration of the second type of UEs comprises:

a paging configuration of the first type of UEs being different from a paging configuration of the second type of UEs.

7. The method of claim 6, wherein the paging configuration of the first type of UEs being different from the paging configuration of the second type of UEs comprises:

a paging occasion for paging the first type of UEs indicated by the paging configuration of the first type of UEs being different from a paging occasion for paging the second type of UEs.

8. The method of any of claims 1-7, wherein sending the configuration information respectively for the first type of UEs and the second type of UEs comprises:

sending the SIB1.

9. The method of claim 8, wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs indicate different uplink access configurations for access;

wherein the SIB1 comprises an initial uplink BWP information element (IE);

the configuration information for the first type of UEs and the configuration information for the second type of UEs are carried in any of the followings:

different initial uplink BWP IEs;

a same initial uplink BWP IE, and the same initial uplink BWP IE comprises different random access channel common configurations for the first type of UEs and the second type of UEs;

a same initial uplink BWP IE, and the same initial uplink BWP IE comprises different physical uplink shared channel (PUSCH) random access message A (MsgA) configurations for the first type of UEs and the second type of UEs, wherein the MsgA is a random access message for the 2-step random access.

10. The method of claim 8, wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs indicate different downlink access configurations for access;

wherein the SIB1 comprises an initial downlink BWP information element (IE);

the configuration information for the first type of UEs and the configuration information for the second type of UEs are carried in any of the followings:

different initial downlink BWP IEs;

a same initial downlink BWP IE, and the same initial downlink BWP IE comprises different common physical downlink control channel (PDCCH) configurations for the first type of UEs and the second type of UEs;

a same initial downlink BWP IE, the same initial downlink BWP IE comprises a same common PDCCH configuration for the first type of UEs and the second type of UEs, and the same common PDCCH configuration has different parameter values for downlink access configurations of the first type of UEs and the second type of UEs.

11. A method for transmitting configuration information, comprising:

receiving, by a user equipment (UE), configuration information sent by a base station, wherein the configuration information comprises configuration information for a first type of UEs and configuration information for a second type of UEs; wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs comprise respective initial bandwidth part (BWP) configurations, and the configuration information for the first type of UEs and the configuration information for the second type of UEs are respectively carried in a system information block SIB1;

wherein an access configuration of the first type of UEs indicated by the configuration information is independent of an access configuration of the second type of UEs indicated by the configuration information;

the access configuration of the first type of UEs is configured to be used by the first type of UEs for network access, and the access configuration of the second type of UEs is configured to be used by the second type of UEs for network access.

12. The method of claim 11, wherein the access configuration of the first type of UEs being independent of the access configuration of the second type of UEs comprises:

an initial access configuration of the first type of UEs being different from an initial access configuration of the second type of UEs.

13. The method of claim 12, wherein the initial access configuration comprises the BWP configuration;

wherein the access configuration of the first type of UEs being independent of the access configuration of the second type of UEs comprises one of the followings:

an initial BWP configuration of the first type of UEs being different from an initial BWP configuration of the second type of UEs;

the first type of UEs and the second type of UEs having a same initial BWP configuration indicating different access resources on a same initial BWP;

an initial BWP configuration of the first type of UEs and an initial BWP configuration of the second type of UEs being the same in part and different in the remaining part.

14. The method of claim 12, wherein the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs being the same in part and different in the remaining part comprises one of the followings:

the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs having a same uplink initial BWP configuration and different downlink initial BWP configurations;

the initial BWP configuration of the first type of UEs and the initial BWP configuration of the second type of UEs having a same downlink initial BWP configuration and different uplink initial BWP configurations.

15. The method of claim 11, wherein the access configuration comprises a random access configuration for random access;

wherein the access configuration of the first type of UEs indicated by the configuration information being independent of the access configuration of the second type of UEs comprises:

a random access configuration of the first type of UEs being different from a random access configuration of the second type of UEs.

16. The method of claim 11, wherein the access configuration comprises a paging configuration for sending a paging message;

wherein the access configuration of the first type of UEs indicated by the configuration information being independent of the access configuration of the second type of UEs comprises:

a paging configuration of the first type of UEs being different from a paging configuration of the second type of UEs.

17. The method of claim 16, wherein the paging configuration of the first type of UEs being different from the paging configuration of the second type of UEs comprises:

a paging occasion for paging the first type of UEs indicated by the paging configuration of the first type of UEs being different from a paging occasion for paging the second type of UEs.

18. The method of any of claims 11-17, wherein receiving the configuration information sent by the base station comprises:

receiving the SIB1.

19. The method of claim 18, wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs indicate different uplink access configurations for access;

wherein the SIB1 comprises an initial uplink BWP information element (IE);

the configuration information for the first type of UEs and the configuration information for the second type of UEs are carried in any of the followings:

different initial uplink BWP IEs;

a same initial uplink BWP IE, and the same initial uplink BWP IE comprises different random access channel common configurations for the first type of UEs and the second type of UEs;

a same initial uplink BWP IE, and the same initial uplink BWP IE comprises different physical uplink shared channel (PUSCH) random access message A (MsgA) configurations for the first type of UEs and the second type of UEs, wherein the MsgA is a random access message for the 2-step random access.

20. The method of claim 18, wherein the configuration information for the first type of UEs and the configuration information for the second type of UEs indicate different downlink access configurations for access;

wherein the SIB1 comprises an initial downlink BWP information element (IE);

the configuration information for the first type of UEs and the configuration information for the second type of UEs are carried in any of the followings:

different initial downlink BWP IEs;

a same initial downlink BWP IE, and the same initial downlink BWP IE comprises different common physical downlink control channel (PDCCH) configurations for the first type of UEs and the second type of UEs;

a same initial downlink BWP IE, the same initial downlink BWP IE comprises a same common PDCCH configuration for the first type of UEs and the second type of UEs, and the same common PDCCH configuration has different parameter values for downlink access configurations of the first type of UEs and the second type of UEs.

21. A communication device, comprising: a processor, a transceiver, a memory and executable programs running on the processor;

wherein when the processor runs the executable programs, the method according to any of claims 1-10 or 11-20 is performed.