

CLAIMS

1. A method for cell access control, performed by a user equipment (UE), comprising:
performing a mobility operation of at least one of a cell or a cell group based on second configuration information corresponding to first configuration information, wherein the first configuration information is configured for mobility configuration, and the second configuration information comprises or indicates at least one of configuration information or a trigger condition of at least one of a candidate cell or a candidate cell group.

2. The method as claimed in claim 1, wherein before performing the mobility operation of the at least one of the cell or the cell group based on the second configuration information corresponding to the first configuration information, the method further comprises:

receiving the first configuration information sent by a current serving master node (MN) or a current serving secondary node (SN), wherein the first configuration information comprises or indicates public measurement configuration information.

3. The method as claimed in claim 1, wherein before performing the mobility operation of at least one of the cell or the cell group based on the second configuration information corresponding to the first configuration information, the method further comprises:

receiving the second configuration information determined by a network node based on the first configuration information of the UE, wherein the network node is a current serving MN, a current serving SN or a candidate SN.

4. The method as claimed in claim 1, wherein before performing the mobility operation of the at least one of the cell or the cell group based on the second configuration information corresponding to the first configuration information, the method further comprises:

receiving the second configuration information determined by a network node based on the first configuration information of the UE, wherein the network node is a current serving MN, a current serving SN or a candidate SN, the second configuration information comprises or indicates the configuration information of the at least one of the candidate cell or the candidate cell group, the second configuration information comprises indication information, and the indication information indicates whether a measurement identifier corresponding to the indication information is enabled or disabled;

wherein performing the mobility operation of the at least one of the cell or the cell group based on the second configuration information corresponding to the first configuration

information comprises:

performing the mobility operation of the at least one of the cell or the cell group based on the second configuration information and an enabled measurement identifier among at least one measurement identifier in the UE.

5. A method for cell access control, performed by a current serving master node (MN), comprising:

sending second configuration information corresponding to first configuration information to a user equipment (UE), wherein the first configuration information is configured for mobility configuration, and the second configuration information comprises or indicates at least one of configuration information or a trigger condition of at least one of a candidate cell or a candidate cell group.

6. The method as claimed in claim 5, further comprising:

generating the first configuration information; and sending the first configuration information to the UE;

or

obtaining the first configuration information generated by a current serving secondary node (SN), wherein the first configuration information comprises or indicates public measurement configuration information.

7. The method as claimed in claim 5, wherein before sending the second configuration information corresponding to the first configuration information to the UE, the method further comprises:

receiving the first configuration information of the UE sent by a current serving SN; and

sending the first configuration information to a candidate SN corresponding to the at least one of the candidate cell or the candidate cell group;

wherein sending the second configuration information corresponding to the first configuration information to the UE comprises:

forwarding to the UE, the second configuration information determined by the candidate SN based on the first configuration information.

8. The method as claimed in claim 7, wherein receiving the first configuration information of the UE sent by the current serving SN comprises:

determining that at least one of following situations occurs in the UE:

- a change in a secondary cell group (SCG) accessed by the UE;
- a change in measurement configuration information corresponding to the SCG accessed by the UE;
- a change in configuration information corresponding to SCG mobility; or
- a change in a trigger condition corresponding to the SCG mobility; and

receiving the first configuration information of the UE sent by the current serving SN.

9. The method as claimed in claim 7 or 8, wherein the first configuration information comprises or indicates at least one of:

- measurement configuration information, wherein the measurement configuration information comprises: part or all of measurement configurations related to an SCG;
- a trigger condition corresponding to SCG mobility of the UE;
- configuration information of at least one of a candidate cell or a candidate cell group corresponding to the SCG mobility of the UE; or
- an identifier of the at least one of the candidate cell or the candidate cell group corresponding to the SCG mobility of the UE.

10. The method as claimed in claim 5, wherein before sending the second configuration information corresponding to the first configuration information to the UE, the method further comprises:

- sending the first configuration information of the UE to a candidate SN;
- wherein sending the second configuration information corresponding to the first configuration information to the UE comprises:
 - forwarding to the UE, the second configuration information determined by the candidate SN based on the first configuration information, wherein the second configuration information comprises or indicates the configuration information of the at least one of the candidate cell or the candidate cell group, the second configuration information comprises indication information, and the indication information indicates whether a measurement identifier corresponding to the indication information is enabled or disabled.

11. The method as claimed in any one of claims 5 to 10, wherein the configuration information of the at least one of the candidate cell or the candidate cell group comprises at least one of:

- measurement configuration information, a measurement object identifier, measurement object information, a reporting configuration identifier, reporting configuration information,

a measurement identifier, measurement identifier information, or radio resource control (RRC) reconfiguration information.

12. A method for cell access control, performed by a current serving secondary node (SN), comprising:

sending second configuration information corresponding to first configuration information to a user equipment (UE), wherein the first configuration information is configured for mobility configuration, and the second configuration information comprises or indicates at least one of configuration information or a trigger condition of at least one of a candidate cell or a candidate cell group.

13. The method as claimed in claim 12, further comprising:

generating the first configuration information; and

sending the first configuration information to at least one of the UE or a current serving master node (MN), wherein the first configuration information comprises or indicates public measurement configuration information.

14. The method as claimed in claim 12, wherein before sending the second configuration information corresponding to the first configuration information to the UE, the method further comprises:

sending the first configuration information of the UE to a current serving MN;

wherein sending the second configuration information corresponding to the first configuration information to the UE comprises:

forwarding the second configuration information to the UE, wherein the second configuration information is determined by a candidate SN based on the first configuration information forwarded by the current serving MN.

15. The method as claimed in claim 14, wherein sending the first configuration information of the UE to the current serving MN comprises:

determining that at least one of following situations occurs in the UE:

a change in a secondary cell group (SCG) accessed by the UE;

a change in measurement configuration information corresponding to the SCG accessed by the UE;

a change in configuration information corresponding to SCG mobility; or

a change in a trigger condition corresponding to the SCG mobility; and

sending the first configuration information of the UE to the current serving MN.

16. The method as claimed in claim 12, wherein before sending the second configuration information corresponding to the first configuration information to the UE, the method further comprises:

sending the first configuration information of the UE to a candidate SN

wherein sending the second configuration information corresponding to the first configuration information to the UE comprises:

forwarding to the UE, the second configuration information determined by the candidate SN based on the first configuration information, wherein the second configuration information comprises or indicates the configuration information of the at least one of the candidate cell or the candidate cell group, the second configuration information comprises indication information, and the indication information indicates whether a measurement identifier corresponding to the indication information is enabled or disabled.

17. A method for cell access control, performed by a candidate secondary node (SN), comprising:

sending second configuration information corresponding to first configuration information to a user equipment (UE), wherein the first configuration information is configured for mobility configuration, and the second configuration information comprises or indicates at least one of configuration information or a trigger condition of at least one of a candidate cell or a candidate cell group.

18. A system for cell access control, comprising: a user equipment (UE), a current serving master node (MN), a current serving secondary node (SN), and a candidate SN, wherein,

the UE is configured to perform the method as claimed in any one of claims 1 to 4;

the currently serving MN is configured to perform the method as claimed in any one of claims 5 to 11;

the current serving SN is configured to perform the method as claimed in any one of claims 12 to 16; and

the candidate SN is configured to perform the method as claimed in claim 17.

19. A communication device, comprising a processor, and a memory storing a program executable by the processor, wherein the processor is configured to perform the method as claimed in any one of claims 1 to 4, or the method as claimed in any one of claims 5 to 11,

or the method as claimed in any one of claims 12 to 16, or the method as claimed in claim 17.

20. A computer storage medium for storing an executable program, wherein when the executable program is executed by a processor, the method as claimed in any one of claims 1 to 4, or the method as claimed in any one of claims 5 to 11, or the method as claimed in any one of claims 12 to 16, or the method as claimed in claim 17 is performed.