

WHAT IS CLAIMED IS:

1. A method for receiving measurement gap configuration information, the method being executed by user equipment and the method comprising:

5 sending auxiliary information and second measurement gap configuration information to a network device of a service network, wherein the auxiliary information is configured to indicate at least one parameter for the user equipment to switch from the service network to a target network, wherein the auxiliary information comprises second information indicating a type of a measurement gap, the type is a non-periodic type, and the second measurement gap configuration information comprises configuration of duration of a measurement gap; and

10 receiving first measurement gap configuration information sent by the network device, wherein the first measurement gap configuration information is determined by the network device according to the auxiliary information and the second measurement gap configuration information.

2. The method according to claim 1, wherein sending the auxiliary information to the network device of the service network comprises:

15 sending a radio resource control signaling to the network device of the service network, wherein the radio resource control signaling comprises the auxiliary information.

3. The method according to claim 1, further comprising:

20 setting, in response to the target network being a new radio network, the duration of the measurement gap as a maximum value of a synchronous signal measurement time configuration (SMTC) or a maximum value of a reference signal measurement time configuration (CMTC); or

setting the duration of the measurement gap as duration of a cell reference signal, in response to the target network being a long-term evolution network.

4. The method according to any one of claims 1-3, wherein the auxiliary information further comprises at least one of:

25 first information indicating a timing difference between a service cell in the service network and a target cell in the target network;

third information indicating a usage of the measurement gap, wherein the usage comprises one of: receiving system information or paging information of the target network, performing cell measurement in the target network, and performing data transmission with the target network; or

30 fourth information indicating a validity period of the measurement gap.

5. The method according to claim 4, wherein the third information for different usages corresponds to different durations of the measurement gap in the first measurement gap configuration information, in response to that the auxiliary information comprises the third information.

35 6. The method according to any one of claims 4-5, further comprising:

sending activation information for indicating that the first measurement gap configuration information is enabled to the network device, during the validity period; or

sending deactivation information for indicating that the first measurement gap configuration information is not enabled to the network device, during the validity period.

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

releasing the first measurement gap configuration information when a timer expires, wherein a start time of the timer is a moment when the first measurement gap configuration information is used for the first time.

8. The method according to any one of claims 1-7, further comprising:

10 releasing the first measurement gap configuration information when the number of times the first measurement gap configuration information is used reaches a preset number of times.

9. The method according to any one of claims 1-8, wherein the first measurement gap configuration information is configured for at least one of receiving system information or paging information of the target network, performing cell measurement in the target network, or
15 performing data transmission with the target network.

10. A method for sending measurement gap configuration information, the method being executed by a network device and the method comprising:

receiving auxiliary information and second measurement gap configuration information sent by user equipment, wherein the auxiliary information is configured to indicate at least one
20 parameter for the user equipment to switch from a service network to a target network, wherein the auxiliary information comprises second information indicating a type of a measurement gap, the type is a non-periodic type, and the second measurement gap configuration information comprises configuration of duration of a measurement gap;

determining first measurement gap configuration information according to the auxiliary
25 information and the second measurement gap configuration information; and

sending the first measurement gap configuration information to the user equipment.

11. The method according to claim 10, wherein receiving the auxiliary information sent by the user equipment comprises:

receiving a radio resource control signaling, wherein the radio resource control signaling
30 comprises the auxiliary information sent by the user equipment.

12. The method according to claim 10, further comprising:

setting, in response to the target network being a new radio network, the duration of the measurement gap as a maximum value of a synchronous signal measurement time configuration (SMTC) or a maximum value of a reference signal measurement time
35 configuration (CMTC); or

setting the duration of the measurement gap as duration of a cell reference signal, in response

to the target network being a long-term evolution network.

13. The method according to any one of claims 10-12, wherein the auxiliary information further comprises at least one of:

first information indicating a timing difference between a service cell in the service network
5 and a target cell in the target network;

third information indicating a usage of the measurement gap, wherein the usage comprises one of: receiving system information or paging information of the target network, performing cell measurement in the target network, and performing data transmission with the target network; or

fourth information indicating a validity period of the measurement gap.

10 14. The method according to claim 13, wherein determining the first measurement gap configuration information according to the auxiliary information comprises:

making the third information for different usages correspond to different durations of the measurement gap in the first measurement gap configuration information, in response to that the auxiliary information comprises the third information.

15 15. The method according to any one of claims 13-14, further comprising:

receiving activation information for indicating that the first measurement gap configuration information is enabled from the user equipment, during the validity period; or

receiving deactivation information for indicating that the first measurement gap configuration information is not enabled from the user equipment, during the validity period.

20 16. The method according to any one of claims 10-15, wherein the first measurement gap configuration information is configured for at least one of receiving system information or paging information of the target network, performing cell measurement in the target network, or performing data transmission with the target network.

17. User equipment, comprising:

25 a processor; and

a memory storing a computer program executable by the processor, to implement the method according to any one of claims 1 to 9.

18. A network device, comprising:

a processor; and

30 a memory storing a computer program executable by the processor, to implement the method according to any one of claims 10 to 16.