CLAIMS

1. A method for processing measurement gap pre-configuration, performed by a user equipment (UE), comprising:

receiving (S31) measurement gap indication information, wherein the measurement gap indication information is configured to indicate whether the UE needs a measurement gap on a configured bandwidth part (BWP);

wherein the measurement gap indication information comprises at least one of:

activation measurement gap indication information, configured to indicate at least one measurement object for which the UE needs the measurement gap on the configured BWP, and to activate a measurement gap of a measurement object on the configured BWP for the UE; or

deactivation measurement gap indication information, configured to indicate at least one measurement object for which the UE does not need the measurement gap on the configured BWP, and to deactivate a measurement gap of a measurement object on the configured BWP for the UE;

wherein the measurement object is a measurement carrier.

2. The method of claim 1, wherein receiving (S31) the measurement gap indication information comprises at least one of:

receiving (S41) a measurement gap configuration (MeasGapConfig) signaling, wherein the activation measurement gap indication information is carried in the MeasGapConfig signaling; or

receiving (S42) a measurement gap configuration (MeasGapConfig) signaling, wherein the deactivation measurement gap indication information is carried in the MeasGapConfig signaling.

3. A method for processing measurement gap pre-configuration, performed by a base station, comprising:

sending (S51) measurement gap indication information, wherein the measurement gap indication information is configured to indicate whether a user equipment (UE) needs a measurement gap on a configured bandwidth part (BWP);

wherein the measurement gap indication information comprises at least one of:

activation measurement gap indication information, configured to indicate at least one measurement object for which the UE needs the measurement gap on the configured BWP, and to activate a measurement gap of a measurement object on the configured BWP for the UE; or

deactivation measurement gap indication information, configured to indicate at least one measurement object for which the UE does not need the measurement gap on the configured BWP, and to deactivate a measurement gap of a measurement object on the configured BWP for the UE;

wherein the measurement object is a measurement carrier.

4. The method of claim 3, wherein sending (S51) the measurement gap indication information comprises at least one of:

sending a measurement gap configuration (MeasGapConfig) signaling, wherein the activation measurement gap indication information is carried in the MeasGapConfig signaling; or

sending a measurement gap configuration (MeasGapConfig) signaling, wherein the deactivation measurement gap indication information is carried in the MeasGapConfig signaling.

5. The method of claim 3 or 4, further comprising:

sending (S61) measurement configuration information for measurement, wherein the measurement configuration information is configured to instruct the UE to perform the measurement on the configured BWP.

6. The method of claim 5, wherein sending (S61) the measurement configuration information comprises one of:

sending a radio resource control reconfiguration (RRCReconfiguration) message, wherein the measurement configuration information is carried in the RRCReconfiguration message; or

sending a measurement configuration (measConfig) signaling, wherein the measurement configuration information is carried in the measConfig signaling.

7. The method of any one of claims 3 to 6, further comprising:

sending (S71) a downlink bandwidth part information element (IE BWP-Downlink)

signaling, wherein the IE BWP-Downlink signaling is configured to indicate the configured BWP for the UE.

8. The method of claim 7, wherein a bwp-Id field of the IE BWP-Downlink signaling is configured to indicate a maximum number of the configured BWPs for the UE.

9. An apparatus for processing measurement gap pre-configuration, applied to a user equipment (UE), comprising:

a first receiving module (41), configured to receive measurement gap indication information; wherein the measurement gap indication information is configured to indicate whether the UE needs a measurement gap on a configured BWP;

wherein the measurement gap indication information comprises at least one of:

activation measurement gap indication information, configured to indicate at least one measurement object for which the UE needs the measurement gap on the configured BWP, and to activate a measurement gap of a measurement object on the configured BWP for the UE; or

deactivation measurement gap indication information, configured to indicate at least one measurement object for which the UE does not need the measurement gap on the configured BWP, and to deactivate a measurement gap of a measurement object on the configured BWP for the UE;

wherein the measurement object is a measurement carrier.

10. The apparatus of claim 9, wherein,

the first receiving module (41) is configured to receive a measurement gap configuration (MeasGapConfig) signaling, wherein the activation measurement gap indication information is carried in the MeasGapConfig signaling;

and/or,

the first receiving module (41) is configured to receive a measurement gap configuration (MeasGapConfig) signaling, wherein the deactivation measurement gap indication information is carried in the MeasGapConfig signaling.

11. An apparatus for processing measurement gap pre-configuration, applied to a base station, comprising:

a second sending module (61), configured to send measurement gap indication

information, wherein the measurement gap indication information is configured to indicate whether a user equipment (UE) needs a measurement gap on a configured bandwidth part (BWP);

wherein the measurement gap indication information comprises at least one of:

activation measurement gap indication information, configured to indicate at least one measurement object for which the UE needs the measurement gap on the configured BWP, and to activate a measurement gap of a measurement object on the configured BWP for the UE; or

deactivation measurement gap indication information, configured to indicate at least one measurement object for which the UE does not need the measurement gap on the configured BWP, and to deactivate a measurement gap of a measurement object on the configured BWP for the UE;

wherein the measurement object is a measurement carrier.

12. The apparatus of claim 11, wherein,

the second sending module (61) is configured to send a measurement gap configuration (MeasGapConfig) signaling, and the activation measurement gap indication information is carried in the MeasGapConfig signaling;

and/or,

the second sending module (61) is configured to send a measurement gap configuration (MeasGapConfig) signaling, and the deactivation measurement gap indication information is carried in the MeasGapConfig signaling.