CLAIMS

1. A method for configuring a measurement gap, the method is used in a first access network device among at least two access network devices connected to a terminal, the terminal being in a connected state allowing to perform communication with the at least two access network devices, and the method comprises:

performing, by the first access network device, network negotiation with a second access network device among the at least two access network devices to determine whether the first access network device is a configuration device, wherein the second access network device is different from the first access network device;

when the first access network device is the configuration device among the at least two access network devices, generating, by the first access network device, measurement gap configuration information, wherein the measurement gap configuration information is used for configuring a measurement gap for the terminal, and the measurement gap is used to indicate a period of time during which the terminal performs signal measurement at a frequency other than any serving frequency for the at least two access network devices; and

sending, by the first access network device, the measurement gap configuration information to the terminal.

2. The method of claim 1, wherein performing, by the first access network device, the network negotiation with the second access network device among the at least two access network devices to determine whether the first access network device is the configuration device comprises:

receiving, by the first access network device, configuration negotiation information sent by the second access network device, wherein the configuration negotiation information is used for negotiating to determine an access point device that configures a measurement gap for the terminal; and

determining, by the first access network device according to the configuration negotiation information, whether the first access network device is the configuration device.

3. The method of claim 2, wherein the configuration negotiation information comprises a frequency for a measurement gap to be configured for the terminal by the second access network device.

4. The method of claim 2, wherein the configuration negotiation information further comprises a configuration indication, the configuration indication is to indicate whether the second access network device determines to configure a measurement gap for the terminal.

5. The method of claim 1, wherein generating, by the first access network device, the measurement gap configuration information comprises:

generating, by the first access network device, the measurement gap configuration information responsive to that a first predetermined condition is met, wherein

the first predetermined condition comprises:

a frequency for a measurement gap to be configured for the terminal by the first access network device is same as a frequency for a measurement gap to be configured for the terminal by the second access network device, and the frequency is not a serving frequency for the first access network device and a serving frequency for the second access network device;

or,

a frequency for a measurement gap to be configured for the terminal by the first access network device is different from a frequency for a measurement gap to be configured for the terminal by the second access network device, the frequency for the measurement gap to be configured for the terminal by the first access network device and the frequency for the measurement gap to be configured for the terminal by the second access network device are not serving frequencies for the first access network device and the second access network device, and the frequency for the measurement gap to be configured for the terminal by the first access network device and the frequency for the measurement gap to be configured for the terminal by the second access network device belong to a communication system corresponding to the first access network device or belong to a communication system corresponding to the second access network device;

or,

a frequency for a measurement gap to be configured for the terminal by the first access network device is different from a frequency for a measurement gap to be configured for the terminal by the second access network device, the frequency for the measurement gap to be configured for the terminal by the first access network device and the frequency for the measurement gap to be configured for the terminal by the second access network device are not serving frequencies for the first access network device and the second access network device, and the frequency for the measurement gap to be configured for the terminal by the first access network device and the frequency for the measurement gap to be configured for the terminal by the second access network device belong to different systems among communication systems corresponding to the first access network device and the second access network device.

6. The method of claim 1, further comprising:

determining, by the first access network device, to not generate measurement gap configuration information responsive to that a second predetermined condition is met, wherein

the second predetermined condition comprises:

a frequency for a measurement gap to be configured for the terminal by the second access network device is a serving frequency for the first access network device;

or,

a frequency for a measurement gap to be configured for the terminal by the first access network device is a serving frequency for the second access network device.

7. The method of claim 1, wherein the measurement gap configuration information comprises:

a measurement frequency, a measurement period, and a time-domain position of the period of time in the measurement period.

8. The method of any one of claims 1-7, wherein

the at least two access network devices belong to different communication systems; or

the at least two access network devices belong to a same communication system.

9. An access network device, the access network device being a first access network device, and comprising means adapted to perform the method for configuring the measurement gap according to any one of claims 1 to 8.