CLAIMS

1. A sensing method, comprising:

receiving, by a first device, a first message from a second device, wherein the first message comprises first information, the first information indicates a feedback policy for a sensing result corresponding to a plurality of frequency bands used for frequency stitching; and

feeding back, by the first device, a second message to the second device based on the feedback policy, wherein the second message comprises a sensing result corresponding to at least one of the plurality of frequency bands.

2. The method according to claim 1, wherein the feedback policy comprising:

the first device feeds back a sensing result corresponding to any one of the plurality of frequency bands to the second device after the first device receives a sensing packet on the one of the plurality of frequency bands; or

the first device feeds back a sensing result corresponding to at least one of the plurality of frequency bands to the second device after the first device receives sensing packets on all of the plurality of frequency bands; or

the first device feeds back, to the second device after the first device completes any frequency stitching, a sensing result corresponding to a large bandwidth obtained through the any frequency stitching, wherein the large bandwidth obtained through the any frequency stitching is determined based on a part or all of the plurality of frequency bands used for frequency stitching.; or

the first information indicates the first device to feed back, to the second device after the first device completes a plurality of times of frequency stitching, a CIR of a large bandwidth obtained through at least one of the plurality of times of frequency stitching, wherein a large bandwidth obtained through any one of the plurality of times of frequency stitching is determined based on a part or all of the plurality of frequency bands; or

the first information indicates the first device to feed back, to the second device after the first device performs frequency stitching on the plurality of frequency bands, a CIR of a large bandwidth obtained through frequency stitching; or

the first information indicates the first device to feed back target information to the second device after the first device determines the target information based on completion of frequency stitching on at least two of the plurality of frequency bands and a CIR of a large bandwidth obtained through frequency stitching.

3. The method according to claim 2, wherein the sensing result is a channel impulse response, CIR.

4. The method according to claim 1, wherein the first message further comprises third information, and the third information indicates a change direction of center frequencies of the plurality of frequency bands.

5. The method according to claim 4, wherein the change direction of the center frequencies of the plurality of frequency bands is as follows:

the center frequencies of the plurality of frequency bands are in ascending order; or

the center frequencies of the plurality of frequency bands are in descending order.

6. The method according to claim 4, wherein the first message further comprises one or more of the following information:

fourth information, indicating an identifier of a 1st frequency band in the plurality of frequency bands;

fifth information, indicating a frequency overlap rate between adjacent frequency bands in the plurality of frequency bands; and

sixth information, indicating a total bandwidth of the plurality of frequency bands.

7. The method according to claim 1, wherein before the receiving, by a first device, a first message from a second device, the method further comprises:

sending, by the first device, capability information of the first device to the second device, wherein the capability information of the first device is used by the second device to determine the first message, wherein

the capability information comprises one or more of the following:

eleventh information, indicating that the first device supports or does not support receiving of sensing packets on the plurality of frequency bands;

twelfth information, indicating that the first device supports or does not support frequency stitching; and

thirteenth information, indicating a frequency band allowed by the first device for frequency stitching.

8. A sensing method, comprising:

sending, by a second device, a first message to a first device, wherein the first message comprises first information, the first information indicates a feedback policy for a sensing result corresponding to a plurality of frequency bands used for frequency stitching; and

receiving, by the second device, a second message from the first device, wherein the second message comprises a sensing result corresponding to at least one of the plurality of frequency bands.

9. The method according to claim 8, wherein the feedback policy comprising:

the first device feeds back a sensing result corresponding to any one of the plurality of frequency bands to the second device after the first device receives a sensing packet on the one of the plurality of frequency bands; or

the first device feeds back a sensing result corresponding to at least one of the plurality of frequency bands to the second device after the first device receives sensing packets on all of the plurality of frequency bands; or

the first device feeds back, to the second device after the first device completes any frequency stitching, a sensing result corresponding to a large bandwidth obtained through the any frequency stitching, wherein the large bandwidth obtained through the any frequency stitching is determined based on a part or all of the plurality of frequency bands used for frequency stitching.

10. The method according to claim 9, wherein the sensing result is a channel impulse response, CIR.

11. The method according to claim 8, wherein the first message further comprises third information, and the third information indicates a change direction of center frequencies of the plurality of frequency bands.

12. The method according to claim 11, wherein the change direction of the center frequencies of the plurality of frequency bands is as follows:

the center frequencies of the plurality of frequency bands are in ascending order; or

the center frequencies of the plurality of frequency bands are in descending order.

13. The method according to claim 11, wherein the first message further comprises one or more of the following information:

fourth information, indicating an identifier of a 1st frequency band in the plurality of frequency bands;

fifth information, indicating a frequency overlap rate between adjacent frequency bands in the plurality of frequency bands; and

sixth information, indicating a total bandwidth of the plurality of frequency bands.

14. The method according to claim 8, wherein before the receiving, by a first device, a first message from a second device, the method further comprises:

sending, by the first device, capability information of the first device to the second device, wherein the capability information of the first device is used by the second device to determine the first message, wherein

the capability information comprises one or more of the following:

eleventh information, indicating that the first device supports or does not support receiving of sensing packets on the plurality of frequency bands;

twelfth information, indicating that the first device supports or does not support frequency

stitching; and

thirteenth information, indicating a frequency band allowed by the first device for frequency stitching.

15. A sensing apparatus, configured to perform a method according to any one of claims 1 to 7, or any one of claims 8 to 14.

16. A computer-readable recording medium on which a program is recorded, wherein the program, when executed, enables a computer to perform a method according to any one of claims 1 to 7, or any one of claims 8 to 14.

17. A program which makes a computer to perform a method according to any one of claims 1 to 7, or any one of claims 8 to 14.