CLAIMS

1. A method for measuring a frame error rate, comprising:

obtaining, by a first device, an error frame;

obtaining, by the first device, channel information and/or interference information corresponding to the error frame; and

determining, by the first device, a frame error rate based on the channel information and/or the interference information corresponding to the error frame.

2. The method according to claim 1, wherein the obtaining, by the first device, channel information and/or interference information corresponding to the error frame comprises:

determining, by the first device, the channel information and/or the interference information corresponding to the error frame from channel information and/or interference information corresponding to all frames generated by the first device;

receiving, by the first device, channel information and/or interference information corresponding to all frames from a second device, and determining the channel information and/or the interference information corresponding to the error frame from the channel information and/or the interference information corresponding to all the frames; or

sending, by the first device, a frame identifier of the error frame to a second device, wherein the frame identifier of the error frame is used for determining the channel information and/or the interference information corresponding to the error frame; and receiving, by the first device, the channel information and/or the interference information corresponding to the error frame from the second device.

3. The method according to claim 2, wherein

the receiving, by the first device, channel information and/or interference information corresponding to all frames from a second device comprises:

receiving, by the first device, the channel information corresponding to all the frames from the second device through a first interface, and/or receiving the interference information corresponding to all the frames from the second device through a second interface;

or

the sending, by the first device, a frame identifier of the error frame to a second device comprises:

sending, by the first device, the frame identifier of the error frame to the second device through a third interface; and

the receiving, by the first device, the channel information and/or the interference information corresponding to the error frame from the second device comprises:

receiving, by the first device, the channel information corresponding to the error frame from the second device through a fourth interface, and/or receiving the interference information corresponding to the error frame from the second device through a fifth interface.

4. The method according to claim 2 or 3, wherein

when the first device receives the channel information and/or the interference information corresponding to all the frames from the second device, the method further comprises: receiving, by the first device, frame identifiers corresponding to all the frames from the second device, wherein a frame identifier of each frame corresponds to channel information and/or interference information of each frame; or

when the first device receives the channel information and/or the interference information corresponding to the error frame from the second device, the method further comprises: receiving, by the first device, the frame identifier of the error frame from the second device, wherein a frame identifier of each error frame corresponds to channel information and/or interference information of each error frame.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

determining, by the first device, a plurality of pieces of channel information and/or a plurality of pieces of interference information.

6. The method according to claim 5, wherein the method further comprises:

sending, by the first device, the plurality of pieces of channel information and/or the plurality of pieces of interference information to the second device.

7. The method according to any one of claims 1 to 6, wherein the determining, by the first device, a frame error rate based on the channel information and/or the interference information corresponding to the error frame comprises:

determining, by the first device, a weight of the error frame based on the channel information and/or the interference information corresponding to the error frame; and

determining, by the first device, the frame error rate based on the weight of the error frame.

8. The method according to any one of claims 1 to 7, wherein the frame error rate satisfies

the following formula:

$$FER = \sum_{i=1}^{N} I_i w_i$$

, wherein

FER is the frame error rate; *N* is a quantity of frames, and *N* is a positive integer; *I* is an error indication function, and when an ith frame is an error frame, I_i is 1, or otherwise, I_i is 0; and w_i is a weight of the ith frame, and w_i is determined based on channel information and/or interference information corresponding to the ith frame.

9. The method according to any one of claims 1 to 8, wherein the obtaining, by a first device, an error frame comprises:

determining, by the first device, a plurality of test frames;

obtaining, by the first device, a plurality of decoded frames; and

determining, by the first device, the error frame based on the plurality of test frames and the plurality of decoded frames.

10. A method for measuring a frame error rate, comprising:

determining, by a second device, channel information and/or interference information corresponding to all frames; and

sending, by the second device, the channel information and/or the interference information corresponding to all the frames to a first device.

11. The method according to claim 10, wherein the sending, by the second device, the channel information and/or the interference information corresponding to all the frames to a first device comprises:

sending, by the second device, the channel information corresponding to all the frames to the first device through a first interface, and/or sending the interference information corresponding to all the frames to the first device through a second interface.

12. The method according to claim 10 or 11, wherein when the second device sends the channel information and/or the interference information corresponding to all the frames to the first device, the method further comprises:

sending, by the second device, frame identifiers corresponding to all the frames to the first device, wherein a frame identifier of each frame corresponds to channel information and/or interference information of each frame.

13. A method for measuring a frame error rate, comprising:

receiving, by a second device, a frame identifier of an error frame from a first device, wherein the frame identifier of the error frame is used for determining channel information and/or interference information corresponding to the error frame;

determining, by the second device based on the frame identifier of the error frame, the channel information and/or the interference information corresponding to the error frame; and

sending, by the second device, the channel information and/or the interference information corresponding to the error frame to the first device.

14. The method according to claim 13, wherein the receiving, by a second device, a frame identifier of an error frame from a first device comprises:

receiving, by the second device, the frame identifier of the error frame from the first device through a third interface.

15. The method according to claim 13 or 14, wherein the sending, by the second device, the channel information and/or the interference information corresponding to the error frame to the first device comprises:

sending, by the second device, the channel information corresponding to the error frame to the first device through a fourth interface, and/or sending the interference information corresponding to the error frame to the first device through a fifth interface.

16. The method according to any one of claims 13 to 15, wherein when the second device sends the channel information and/or the interference information corresponding to the error frame to the first device, the method further comprises:

sending, by the second device, the frame identifier of the error frame to the first device, wherein a frame identifier of each error frame corresponds to channel information and/or interference information of each error frame.

17. An apparatus for measuring a frame error rate, comprising a module or a unit configured to perform the method according to any one of claims 1 to 9, the method according to any one of claims 10 to 12, or the method according to any one of claims 13 to 16.

18. An apparatus for measuring a frame error rate, comprising a memory and a processor, wherein

the memory is configured to store computer instructions; and

the processor is coupled to the memory, and is configured to invoke the computer instructions

in the memory, to enable the apparatus for measuring a frame error rate to perform the method according to any one of claims 1 to 9, the method according to any one of claims 10 to 12, or the method according to any one of claims 13 to 16.

19. The apparatus according to claim 17 or 18, wherein the apparatus is a chip.

20. A computer-readable medium, wherein the computer-readable medium stores computer-executable instructions, and when the computer-executable instructions are invoked by a computer, the computer is enabled to perform the method according to any one of claims 1 to 9, the method according to any one of claims 10 to 12, or the method according to any one of claims 13 to 16.