CLAIMS

1. A communication method, comprising:

sending, by a first station, a part of a plurality of first PPDUs to a second station over a first communication link, wherein the plurality of first PPDUs are used to train a transmit beam of the first station and/or a receive beam of the second station; and

receiving, by the first station, a first stop frame from the second station over a second communication link, wherein the first stop frame indicates the first station to stop sending an unsent PPDU in the plurality of first PPDUs over the first communication link; and

the first station and the second station are multi-link devices, and a frequency band on which the first communication link operates is higher than a frequency band on which the second communication link operates.

2. The method according to claim 1, wherein the method further comprises:

canceling, by the first station in response to the first stop frame, receiving a plurality of second PPDUs from the second station over the first communication link, wherein the plurality of second PPDUs are used to train a transmit beam of the second station and/or a receive beam of the first station.

3. The method according to claim 1, wherein the method further comprises:

receiving, by the first station, a part or all of the plurality of second PPDUs over the first communication link, wherein the plurality of second PPDUs are used to train a transmit beam of the second station and/or a receive beam of the first station.

4. The method according to claim 1, the method further comprises:

sending, by the first station, second information to the second station over the second communication link, wherein the second information comprises information about a plurality of transmit beams for sending the plurality of first PPDUs.

5. The method according to claim 4, wherein the second information comprises at least one of the following information:

an identifier, a radio frequency chain identifier, an antenna identifier, a sector identifier, a count identifier, or an antenna weight vector identifier of the beam for sending the first PPDU.

6. The method according to any one of claims 1 to 5, wherein the first PPDU comprises a second training field; and the second training field is sent on the beam for sending the first PPDU, or the second training field is sent on a beam other than the beam for sending the first PPDU.

7. The method according to any one of claims 1 to 6, the method further comprises:

stopping, by the first station in response to the first stop frame after first duration, sending the unsent PPDU in the plurality of first PPDUs.

8. The method according to any one of claims 1 to 6, wherein the first stop frame comprises information about at least one transmit beam of the first station and/or information about at least one receive beam of the second station, and the at least one transmit beam of the first station matches the at least one receive beam of the second station.

9. The method according to claim 8, wherein the first stop frame further comprises quality information of the at least one transmit beam of the first station and/or quality information of the at least one receive beam of the second station.

10. A communication method, comprising:

receiving, by a second station, a part of a plurality of first PPDUs from a first station over a first communication link, wherein the plurality of first PPDUs are used to train a transmit beam of the first station and/or a receive beam of the second station; and

sending, by the second station, a first stop frame to the first station over a second communication link, wherein the first stop frame indicates the first station to stop sending an unsent PPDU in the plurality of first PPDUs over the first communication link; and

the first station and the second station are multi-link devices, and a frequency band on which the first communication link operates is higher than a frequency band on which the second communication link operates.

11. The method according to claim 10, the method further comprises:

performing, by the second station, beam training based on the part of the first PPDUs; and

determining, by the second station, a transmit beam of the first station and/or a receive beam of the second station that meet/meets a preset condition.

12. The method according to claim 10 or 11, wherein the method further comprises:

canceling, by the second station based on the first stop frame, sending the plurality of second PPDUs to the first station over the first communication link, wherein the plurality of second PPDUs are used to train a transmit beam of the second station and/or a receive beam of the first station.

13. The method according to any one of claims 10 to 12, wherein the method further comprises:

determining, by the second station, the receive beam of the second station based on a second mapping table and information about a transmit beam for the received first PPDU, wherein

the second mapping table comprises a mapping relationship between the information about the transmit beam for the first PPDU and information about the receive beam of the second station.

14. The method according to claim 13, wherein the method further comprises:

sending, by the second station, first indication information to the first station over the second communication link, wherein the first indication information indicates a number of times that the first training field is sent on the beam for sending the second PPDU, or the first indication information indicates a beam for sending the first training field.

15. The method according to any one of claims 10 to 14, the method further comprises:

receiving, by the second station, second information from the first station over the second communication link, wherein the second information comprises information about a plurality of transmit beams for sending the plurality of first PPDUs.

16. The method according to any one of claims 10 to 15, wherein the first PPDU comprises a second training field; and the second training field is sent on the beam for sending the first PPDU, or the second training field is sent on a beam other than the beam for sending the first PPDU.

17. The method according to any one of claims 10 to 16, wherein the first stop frame comprises information about at least one transmit beam of the first station and/or information about at least one receive beam of the second station, and the at least one transmit beam of the first station matches the at least one receive beam of the second station.

18. The method according to claim 17, wherein the first stop frame further comprises quality information of the at least one transmit beam of the first station and/or quality information of the at least one receive beam of the second station.

19. A communication apparatus, comprising a unit configured to perform the method according to any one of claims 1 to 9, or comprising a unit configured to perform the method according to any one of claims 10 to 18.

20. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 18.