CLAIMS

1. A communication method, comprising:

receiving, by a first access point multi-link device (AP MLD), a first frame, wherein the first frame is used to request to transfer one or more contexts of a non-access point multi-link device non-AP MLD to a second AP MLD, and the non-AP MLD is associated with the first AP MLD;

transferring, by the first AP MLD, a data path of the non-AP MLD to the second AP MLD based on the first frame; and

after the data path of the non-AP MLD is transferred to the second AP MLD, transferring, by the first AP MLD, the one or more contexts of the non-AP MLD to the second AP MLD based on the first frame.

2. The method according to claim 1, wherein transferring, by the first AP MLD, the data path of the non-AP MLD to the second AP MLD based on the first frame comprises:

sending, by the first AP MLD, the second frame to the second AP MLD, wherein the second frame is used to request the second AP MLD to send a third frame to the distributed system, and the third frame is used to transfer the data path of the non-AP MLD to the second AP MLD.

3. The method according to claim 1 or 2, wherein before transferring, by the first AP MLD, the data path of the non-AP MLD to the second AP MLD based on the first frame, the method further comprises:

stopping, by the first AP MLD, sending uplink data to the distributed system.

4. The method according to any one of claims 1 to 3, wherein transferring, by the first AP MLD, the one or more contexts of the non-AP MLD to the second AP MLD based on the first frame comprises:

sending, by the first AP MLD, a fourth frame to the second AP MLD, wherein the fourth frame comprises information about the one or more contexts of the non-AP MLD.

5. The method according to any one of claims 1 to 4, wherein the first frame comprises at least one of the following:

a first field, wherein the first field indicates to transfer all or a part of the contexts of the non-AP MLD;

a second field, wherein the second field indicates whether to perform data transmission of the uplink data and/or downlink data; or

a third field, wherein the third field indicates whether to transfer a security association context to the second AP MLD.

6. The method according to claim 5, wherein when the first frame comprises the first field, and the first field indicates to transfer the part of the contexts of the non-AP MLD, the first frame

further comprises a fourth field, the fourth field comprises a plurality of bits, each bit corresponds to one traffic type, and each bit indicates whether a context of the corresponding traffic type needs to be transferred.

7. The method according to claim 5 or 6, wherein when the first frame comprises the third field, and the third field indicates to transfer the security association context to the second AP MLD, the one or more contexts of the non-AP MLD comprise the security association context.

8. The method according to any one of claims 1 to 7, wherein receiving, by the first AP MLD, the first frame comprises:

receiving, by the first AP MLD, the first frame from the non-AP MLD.

9. The method according to claim 8, wherein the first frame comprises a fifth field; and

the first frame is from the non-AP MLD, and the fifth field indicates an address of the second AP MLD; or

the first frame is from the second AP MLD, and the fifth field indicates an address of the non-AP MLD.

10. The method according to claim 8 or 9, wherein the first frame is from the non-AP MLD, and the method further comprises:

sending, by the first AP MLD, a fifth frame to the non-AP MLD, wherein the fifth frame indicates that the one or more contexts of the non-AP MLD are successfully transferred.

11. The method according to claim 10, wherein the fifth frame comprises a sixth field, and the sixth field indicates to remove one or more links between the first AP MLD and the non-AP MLD.

12. The method according to any one of claims 1 to 11, wherein the first frame further comprises a seventh field, and the seventh field indicates to switch one or more links between the second AP MLD and the non-AP MLD to an active mode.

13. The method according to any one of claims 1 to 12, wherein the method further comprises:

sending, by the first AP MLD, a sixth frame to the non-AP MLD, wherein the sixth frame indicates that buffered data of the first AP MLD has been transmitted, or the sixth frame is used to request to delete the one or more links between the first AP MLD and the non-AP MLD.

14. A communication apparatus, comprising a unit configured to perform the method according to any one of claims 1 to 13.

15. A communication apparatus, comprising a processor and a memory, wherein

the memory is configured to store computer program instructions; and

the processor is configured to execute the instructions, so that the method according to any one of claims 1 to 13 is performed.

16. A communication apparatus, comprising a logic circuit and an interface, wherein the logic

circuit is coupled to the interface; and

the interface is configured to input and/or output code instructions, and the logic circuit is configured to execute the code instructions, so that the method according to any one of claims 1 to 13 is performed.

17. A computer-readable storage medium, wherein the computer-readable storage medium is configured to store a computer program, and when the computer program is executed, the method according to any one of claims 1 to 13 is performed.