CLAIMS

What is claimed is:

1. A multi-link group addressed traffic transmission method, wherein the method comprises:

generating, by a first access point AP of an access point multi-link device AP MLD, group addressed traffic indication information, wherein the group addressed traffic indication information indicates whether one or more APs of the AP MLD have a group addressed traffic; and

sending, by the first AP, the group addressed traffic indication information.

2. The method according to claim 1, wherein

the group addressed traffic indication information indicates whether each AP of the AP MLD has a group addressed traffic.

3. The method according to claim 1 or 2, wherein

each bit of the group addressed traffic indication information corresponds to each AP of the AP MLD; and

a value of the bit indicates whether the AP corresponding to the bit has a group addressed traffic.

4. The method according to any one of claims 1 to 3, wherein

the group addressed traffic indication information comprises a part of bits in a partial virtual bitmap field in a traffic indication map TIM element, wherein the part of bits in the partial virtual bitmap field in the TIM element indicate whether each AP of the AP MLD other than the first AP has a group addressed traffic.

5. The method according to claim 4, wherein

the part of bits in the partial virtual bitmap field in the traffic indication map TIM element are consecutive bits.

6. The method according to any one of claims 1 to 5, wherein

an association identifier AID corresponding to each bit of the group addressed traffic indication information is different from an AID of a station managed by each AP of the AP MLD.

7. A multi-link group addressed traffic transmission method, wherein the method comprises:

receiving, by a first station STA of a station multi-link device STA MLD, group addressed traffic indication information from an AP MLD, wherein the group addressed traffic indication information indicates whether one or more APs of the AP MLD have a group addressed traffic.

8. The method according to claim 7, wherein

the receiving, by a first STA of a STA MLD, group addressed traffic indication information from an AP MLD comprises:

listening to, by the first STA of the STA MLD, group addressed traffic indication information from one AP of the AP MLD.

9. The method according to claim 7 or 8, wherein the group addressed traffic indication information is carried in a delivery traffic indication map DTIM beacon frame.

10. The method according to claim 9, wherein the method further comprises:

receiving, by the first STA, a group addressed traffic after the DTIM beacon frame.

11. An access point of an access point multi-link device, wherein the access point of the access point multi-link device comprises a transceiver and a processor, wherein

the processor is configured to generate group addressed traffic indication information, wherein the group addressed traffic indication information indicates whether one or more APs of the AP MLD have a group addressed traffic; and

the transceiver is configured to send the group addressed traffic indication information.

12. The access point of the access point multi-link device according to claim 11, wherein

the group addressed traffic indication information indicates whether each AP of the AP MLD has a group addressed traffic.

13. The access point of the access point multi-link device according to claim 11 or 12, wherein each bit of the group addressed traffic indication information corresponds to each AP of the AP MLD; and

a value of the bit indicates whether the AP corresponding to the bit has a group addressed traffic.

14. The access point of the access point multi-link device according to any one of claims 11 to 13, wherein

the group addressed traffic indication information is a part of bits in a partial virtual bitmap field in a traffic indication map TIM element.

15. The access point of the access point multi-link device according to any one of claims 11 to 14, wherein

the group addressed traffic indication information is a part of consecutive bits in the partial virtual bitmap field in the traffic indication map TIM element.

16. The access point of the access point multi-link device according to any one of claims 11 to 15, wherein

an association identifier AID corresponding to each bit of the group addressed traffic indication information is different from an AID of a station managed by each AP of the AP MLD.

17. A station of a station multi-link device, wherein the station of the station multi-link device comprises a transceiver; and

the transceiver is configured to receive group addressed traffic indication information from an AP MLD, wherein the group addressed traffic indication information indicates whether one or more APs of the AP MLD have a group addressed traffic.

18. The station of the station multi-link device according to claim 17, wherein the station of the station multi-link device works on a primary link; and

that the transceiver receives group addressed traffic indication information from an AP MLD

is specifically:

the transceiver is configured to listen to, on the primary link, group addressed traffic indication information from one AP of the AP MLD.

19. The station of the station multi-link device according to claim 17 or 18, wherein

the group addressed traffic indication information is carried in a delivery traffic indication map DTIM beacon frame.

20. The method according to claim 19, wherein

the transceiver is further configured to receive a group addressed traffic after the DTIM beacon frame.

21. A chip system, comprising at least one processor and an interface, wherein

the processor is configured to generate group addressed traffic indication information, wherein the group addressed traffic indication information indicates whether one or more APs of an AP MLD have a group addressed traffic; and

the interface is configured to send the group addressed traffic indication information.

22. A chip system, comprising at least one processor and an interface, wherein

the interface is configured to receive group addressed traffic indication information from an AP MLD, wherein the group addressed traffic indication information indicates whether one or more APs of the AP MLD have a group addressed traffic.

23. A computer-readable storage medium, configured to store a computer program, wherein when the computer program runs on a computer, the computer is enabled to perform the method according to any one of claims 1 to 6, or perform the method according to any one of claims 7 to 10.