

CLAIMS

1. A traffic-to-link mapping method, comprising:
receiving (S901), by a first multi-link device, a second message from a second multi-link device,
wherein the second message comprises an information element indicating a traffic-to-link mapping relationship, the information element carries a second preset field, and the second preset field indicates the first multi-link device to establish or update the traffic-to-link mapping relationship in a default mapping manner; and
establishing or updating, by the first multi-link device, a traffic-to-link mapping relationship based on the mapping information, wherein the second message is a beacon frame or an EHT action frame.
2. A traffic-to-link mapping method, comprising:
generating, by a second multi-link device, a second message,
wherein the second message comprises an information element indicating a traffic-to-link mapping relationship, the information element carries a second preset field, and the second preset field indicates the first multi-link device to establish or update the traffic-to-link mapping relationship in a default mapping manner; and
sending (S901), by the second multi-link device, the second message to a first multi-link device, wherein the second message is a beacon frame or an EHT action frame.
3. A multi-link device (200, 300), comprising a processor (320), wherein the processor (320) is coupled to a memory (330), and the processor (320) is configured to execute a computer program or instructions stored in the memory (330), so that the device performs the following method:
receiving, from a second multi-link device, a second message, wherein the second message comprises an information element indicating a traffic-to-link mapping relationship, the information element carries a second preset field, and the second preset field indicates the first multi-link device to establish or update the traffic-to-link mapping relationship in a default mapping manner, and wherein the second message is a beacon frame or an EHT action frame; and
establishing or updating a traffic-to-link mapping relationship based on the mapping information.

4. A multi-link device (200, 300), comprising a processor (320), wherein the processor (320) is coupled to a memory (330), and the processor (320) is configured to execute a computer program or instructions stored in the memory (330), so that the device performs the following method:

generating a second message, wherein the second message comprises an information element indicating a traffic-to-link mapping relationship, the information element carries a second preset field, and the second preset field indicates the first multi-link device to establish or update the traffic-to-link mapping relationship in a default mapping manner; and

sending the second message to a first multi-link device and wherein the second message is a beacon frame or an EHT action frame.

5. The method according to claim 1 or 2 or the device according to claim 3 or 4, wherein the second message further comprises ninth indication information, indicating a traffic direction of the traffic-to-link mapping, and the traffic direction is any one of uplink, downlink, or uplink and downlink.

6. The method according to any one of claims 1, 2 and 5, or the device according to any one of claims 3, 4 and 5, wherein the traffic-to-link mapping information is carried in a media access control, MAC, header or in an information element indicating the traffic-to-link mapping relationship.

7. The method according to claim 1 or 2 or the device according to claim 3 or 4, wherein the default mapping manner comprises: mapping, by the first multi-link device, each traffic identifier to each link on which multi-link communication is established.

8. The method according to claim 1 or 2 or the device according to claim 3 or 4, wherein the information element indicating the traffic-to-link mapping relationship does not carry a traffic-to-link mapping information field.

9. The method according to claim 8 or the device according to claim 8, wherein the traffic-to-link mapping information field comprises:

one or more link profile fields, wherein each link profile field comprises identifier information of one link and identifier information of one or more pieces of traffic mapped to the link; or

one or more traffic profile fields, wherein each traffic profile field comprises identifier

information of one traffic and identifier information of one or more links to which the traffic is mapped.

10. The method according to claim 1 or 2 or the device according to claim 3 or 4, wherein a length of the second preset field is 1 bit; and when a value of the second preset field is 1, the second preset field indicates the first multi-link device to establish or update the traffic-to-link mapping relationship in a default mapping manner.

11. A chip, wherein the chip is coupled to a memory (330), and is configured to read and execute program instructions stored in the memory (330), so that the method according to any one of claims 1 and 5 to 10, or the method according to any one of claims 2 and 5 to 10 is performed.

12. A communication apparatus, comprising:

a transceiver module (210), configured to communicate with another communication apparatus other than the communication apparatus; and

a processing module (220), configured to perform, by using the transceiver module (210), the method according to any one of claims 1 and 5 to 10, or the method according to any one of claims 2 and 5 to 10.

13. A computer program product, comprising instructions, wherein when the computer program product runs on a computer, the method according to any one of claims 1 and 5 to 10, or the method according to any one of claims 2 and 5 to 10 is performed.