

CLAIMS

1. A service indication method for establishing a low-delay service between a multi-link transmit device and a multi-link receive device in a wireless local area network (WLAN), wherein
5 the method comprises:

generating, by the multi-link transmit device, quality of service requirement information of a low-delay service, wherein the quality of service requirement information comprises packet loss rate indication information, wherein the packet loss rate indication information comprises an acceptable maximum packet loss rate and a reference number of service data packets, wherein the
10 reference number of service data packets indicates a reference measurement number for counting the packet loss rate and is a number of data packets actually sent by the multi-link transmit device;
and

sending, by the transmit device to the multi-link receive device, the quality of service requirement information to be used for determining whether to establish the low-delay service
15 between the multi-link transmit device and the multi-link receive device.

2. A service indication method for establishing a low-delay service between a multi-link transmit device and a multi-link receive device in a wireless local area network (WLAN), wherein
the method comprises:

receiving, by the multi-link receive device from the multi-link transmit device, quality of
20 service requirement information, wherein the quality of service requirement information comprises packet loss rate indication information, wherein the packet loss rate indication information comprises an acceptable maximum packet loss rate and a reference number of service data packets, wherein the reference number of service data packets indicates a reference measurement number for counting the packet loss rate and is a number of data packets actually
25 sent by the multi-link transmit device; and

determining, by the multi-link receive device, a quality of service requirement based on the quality of service requirement information to determine whether to establish the low-delay service between the multi-link transmit device and the multi-link receive device.

3. The method according to claim 1 or 2, wherein the acceptable maximum packet loss rate
30 is a value of an index which indicates a maximum packet loss rate, a mapping relationship exists

between the index and the maximum packet loss rate.

4. The method according to any one of claims 1 to 3, wherein the quality of service requirement information further comprises: delay bound indicating an allowed maximum delay of a traffic stream.

5 5. The method according to any one of claims 1 to 4, wherein the quality of service requirement information further comprises: transmission direction indicating a direction of a traffic stream, the transmission direction comprises one of uplink, downlink, direct link, or uplink and downlink.

6. The method according to any one of claims 1 to 5, wherein the quality of service
10 requirement information further comprises at least one of:

an element identifier identifying an element carrying the quality of service requirement information;

length indicating a number of bytes occupied by the element;

traffic identifier bitmap indicating a traffic identifier, TID, corresponding to the element;

15 minimum service interval indicating a minimum interval between any two service periods of a traffic stream;

maximum service interval indicating a maximum interval between any two service periods of a traffic stream;

service start time indicating start time of a service;

20 minimum data rate indicating a minimum data rate corresponding to a location of a service access point at a media access control, MAC, layer;

mean data rate indicating a mean data rate corresponding to a location of a service access point at a MAC layer; or

burst size indicating a maximum burst size of a traffic stream.

25 7. The method according to any one of claims 1 and 3 to 6 when dependent on claim 1, wherein the quality of service requirement information further comprises:

indication information indicating whether to enable triggering, based on an average packet loss rate, sending the quality of service requirement information, and a threshold of the average packet loss rate.

30 8. The method according to any one of claims 1 to 7, wherein the quality of service requirement information further comprises at least one piece of the following information:

indication information indicating whether a service is a high-reliability service, maximum delay jitter of a service, indication information indicating whether to use a backup transmission mode, indication information indicating an expected channel access manner, and indication information indicating whether a restricted service period needs to be established.

5 9. A computer-readable storage medium, configured to store a computer program, wherein the computer program comprises instructions that cause a multi-link device in a wireless local area network (WLAN) to perform the method according to any one of claims 1 to 8.

 10. A computer program, wherein the computer program comprises instructions that cause a multi-link device in a wireless local area network (WLAN) to perform the method according to
10 any one of claims 1 to 8.

 11. A service indication apparatus, the apparatus being a multi-link device in a wireless local area network (WLAN), comprising:

 a memory, configured to store computer instructions; and

 a processor, configured to execute the instructions to cause the apparatus to perform the
15 method in any one of claims 1 to 8.