CLAIMS

1. A communication method, applied to an access point device, wherein the method comprises:

when a transmit opportunity TXOP holder is a first terminal device, receiving first indication information, wherein the first indication information indicates that a second terminal device has to-be-transmitted first uplink data; and

sending second indication information to the second terminal device, wherein the second indication information indicates the second terminal device to send the first uplink data within first TXOP sharing TXS time, and the first TXS time is a resource in the TXOP.

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

sending a first request message to the first terminal device, wherein the first request message is used to request the first TXS time in the TXOP.

3. The method according to claim 1 or 2, wherein receiving the first indication information comprises:

receiving, in a first frequency domain resource, the first indication information sent by the second terminal device, wherein the first frequency domain resource is a part of frequency domain resources within a transmission bandwidth of the first terminal device, or the first frequency domain resource is a frequency domain resource outside the transmission bandwidth of the first terminal device.

4. The method according to claim 3, wherein the first frequency domain resource comprises a plurality of tone sets corresponding to the second terminal device, and the plurality of tone sets comprise a first tone set and a second tone set; and

the first tone set is used to transmit the first indication information, the second tone set is used to transmit third indication information sent by the second terminal device to the access point device, and the third indication information indicates that the second terminal device has no to-be-transmitted first uplink data.

5. The method according to claim 1 or 2, wherein receiving the first indication information comprises:

receiving the first indication information sent by the first terminal device, wherein the first indication information is associated with a traffic indication frame sent by the second terminal device to the first terminal device, and the traffic indication frame indicates that the second terminal device has the to-be-transmitted first uplink data.

6. The method according to claim 5, wherein the first indication information is carried in an uplink physical protocol data unit PPDU frame.

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

sending a first request message to the first terminal device, wherein the first request message is used to request second TXS time in the TXOP, and the second TXS time comprises the first TXS time.

8. The method according to claim 7, wherein the second TXS time further comprises third TXS time, and the third TXS time is earlier than the first TXS time; and

the method further comprises:

sending second request information to the second terminal device within the third TXS time, wherein the second request information is used to request the second terminal device to report whether there is the to-be-transmitted first uplink data.

9. The method according to claim 8, wherein the method further comprises:

sending fourth indication information to the first terminal device, wherein the fourth indication information indicates the first terminal device to stop sending second uplink data within the third TXS time.

10. The method according to claim 8, wherein the second request information is carried in a null data physical protocol data unit feedback report poll NFRP frame, and the first indication information is carried in a null data physical protocol data unit feedback report NFR frame.

11. The method according to claim 8, wherein sending the second request message to the second terminal device comprises:

sending a downlink PPDU frame to the second terminal device, wherein the downlink PPDU frame is used to carry to-be-sent downlink data and the second request information.

12. The method according to claim 11, wherein the first indication information is carried in an acknowledgment frame or a response frame, and the acknowledgment frame or the response frame corresponds to the downlink PPDU frame.

13. The method according to claim 7, wherein the method further comprises:

receiving third indication information, wherein the third indication information indicates that the second terminal device has no to-be-transmitted first uplink data; and

sending fifth indication information to the first terminal device, wherein the fifth indication information indicates that the TXS time ends.

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

receiving, within the first TXS time, the first uplink data sent by the second terminal device; and

sending fifth indication information to the first terminal device, wherein the fifth indication information indicates that the TXS time ends.

15. The method according to claim 1, wherein the to-be-transmitted first uplink data is low latency traffic LLT data.

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

sending sixth indication information to the first terminal device, wherein the sixth indication information indicates the first terminal device not to transmit uplink data within the first TXS time; or

sending seventh indication information to the first terminal device, wherein the seventh indication information indicates the first terminal device to transmit low latency traffic data within the first TXS time.

17. The method according to claim 1, wherein the first terminal device and the second terminal device are terminal devices in a same TXOP sharing terminal group.

18. A communication method, applied to a second terminal device, wherein the method comprises:

when a transmit opportunity TXOP holder is a first terminal device, receiving second indication information sent by an access point device, wherein the second indication information indicates to send first uplink data within first TXOP sharing TXS time, and the first TXS time is a resource in the TXOP; and

sending the first uplink data within the first TXS time.

19. The method according to claim 18, wherein the method further comprises:

sending first indication information to the access point device in a first frequency domain resource, wherein the first indication information indicates that the second terminal device has the to-be-transmitted first uplink data; and the first frequency domain resource is a part of frequency domain resources within a transmission bandwidth of the first terminal device, or the first frequency domain resource is a frequency domain resource outside the transmission bandwidth of the first terminal device.

20. A communication apparatus, comprising one or more processors, wherein the one or more processors are configured to execute a computer program in a memory, to enable the communication apparatus to perform the method according to claim 1 or 18.