

CLAIMS

What is claimed is:

1. A channel access method, comprising:

receiving, by a first device, a management frame from a first access point AP, wherein the management frame comprises first indication information, the first indication information indicates at least one first reserved resource that first traffic is allowed to contention-based access, and the at least one first reserved resource only comprises a time domain resource reserved for the first traffic; and

initiating, by the first device, channel access on the at least one first reserved resource, and transmitting the first traffic.

2. A channel access method, comprising:

generating, by a first access point AP, a management frame, wherein the management frame comprises first indication information, the first indication information indicates at least one first reserved resource that first traffic is allowed to contention-based access, and the at least one first reserved resource only comprises a time domain resource reserved for the first traffic; and

sending, by the first AP, the management frame to a first device.

3. The method according to claim 1 or 2, wherein the reserved time domain resource is partial time domain resources between target beacon transmission times TBTTs.

4. The method according to any one of claims 1 to 3, wherein the first AP is an AP affiliated with a multi-link device MLD AP, the first AP operates on a plurality of links, the first indication information indicates a time domain resource of one of the plurality of links, or the first indication information indicates partial time domain resources of a first link of the plurality of links.

5. The method according to any one of claims 1 to 4, wherein an interval T_r between two adjacent first reserved resources is determined based on a delay requirement of the first traffic, and duration occupied by each first reserved resource is determined based on a traffic volume of the first traffic.

6. The method according to claim 5, wherein T_r satisfies $T_r \leq t_{delay}/2$, and t_{delay} is a maximum delay allowed by the first traffic.

7. The method according to any one of claims 1 to 6, wherein the first indication information further indicates that the first traffic is allowed to contention-based access partial frequency domain resources in the at least one first reserved resource, and/or the first indication information

further indicates that the frequency domain resources in the at least one first reserved resource are used to schedule or transmit the first traffic.

8. The method according to any one of claims 1 to 7, wherein the management frame is a beacon Beacon frame, an association response association response frame, a probe response probe response frame, or an action frame.

9. The method according to any one of claims 1 to 8, wherein the management frame comprises a first element field and a quiet element field.

10. The method according to claim 9, wherein the first indication information is carried in the first element field.

11. The method according to claim 9 or 10, wherein the quantity of the quiet element field is N, and N quiet intervals indicated by the N quiet element fields one-to-one correspond to the at least one first reserved resource, where N is an integer greater than or equal to 1.

12. The method according to any one of claims 1 to 11, wherein the management frame comprises a first element field and a quiet element field, if the first device is a legacy terminal, the first device keeps quieting based on a quiet interval indicated by the quiet element field, or if the first device is a non-legacy terminal, the first device ignores a quiet interval indicated by the quiet element field, and performs transmission of the first traffic on the at least one first reserved resource.

13. A communication apparatus, wherein the communication apparatus comprises a transceiver module and a processing module;

the transceiver module is configured to receive a management frame from a first access point AP, wherein the management frame comprises first indication information, the first indication information indicates at least one first reserved resource that first traffic is allowed to contention-based access, and the at least one first reserved resource only comprises a time domain resource reserved for the first traffic; and

the transceiver module is further configured to initiate channel access on the at least one first reserved resource determined by the processing module, and transmit the first traffic.

14. A communication apparatus, wherein the communication apparatus comprises a transceiver module and a processing module;

the processing module is configured to generate a management frame, wherein the management frame comprises first indication information, the first indication information

indicates at least one first reserved resource that first traffic is allowed to contention-based access, and the at least one first reserved resource only comprises a time domain resource reserved for the first traffic; and

the transceiver module is configured to send the management frame to a first device.

5 15. The communication apparatus according to claim 13 or 14, wherein the reserved time domain resource is partial time domain resources between target beacon transmission times TBTTs.

10 16. The communication apparatus according to any one of claims 13 to 15, wherein the first AP is an AP affiliated with a multi-link device MLD AP, the first AP operates on a plurality of links, the first indication information indicates a time domain resource of one of the plurality of links, or the first indication information indicates partial time domain resources of a first link of the plurality of links.

15 17. The communication apparatus according to any one of claims 13 to 16, wherein an interval T_r between two adjacent first reserved resources is determined based on a delay requirement of the first traffic, and duration occupied by each first reserved resource is determined based on a traffic volume of the first traffic.

18. The communication apparatus according to claim 17, wherein $T_r \leq t_{delay}/2$, and t_{delay} is a maximum delay allowed by the first traffic.

20 19. The communication apparatus according to any one of claims 13 to 18, wherein the first indication information further indicates that the first traffic is allowed to contention-based access partial frequency domain resources in the at least one first reserved resource, and/or the first indication information further indicates that the partial frequency domain resources in the at least one first reserved resource are used to schedule or transmit the first traffic.

25 20. The communication apparatus according to any one of claims 13 to 19, wherein the management frame is a beacon Beacon frame, an association response association response frame, a probe response probe response frame, or an action frame.

21. The communication apparatus according to any one of claims 13 to 20, wherein the management frame comprises a first element field and a quiet element field.

30 22. The communication apparatus according to claim 21, wherein the first indication information is carried in the first element field.

23. The communication apparatus according to claim 21 or 22, wherein the quantity of the

quiet element field is N, and N quiet intervals indicated by the N quiet element fields one-to-one correspond to the at least one first reserved resource, where N is an integer greater than or equal to 1.

24. The communication apparatus according to any one of claims 13 to 23, wherein the management frame comprises a resource reservation element field and a quiet element field, if the first device is a legacy terminal, the processing module is configured to perform quieting based on a quiet interval indicated by the quiet element field, or if the first device is a non-legacy terminal, the processing module is configured to perform transmission of the first traffic on the at least one first reserved resource.

25. A chip, wherein the chip comprises at least one processor and an interface, the processor is configured to read and execute instructions stored in a memory, and when the instructions are run, the chip is enabled to perform the method according to any one of claims 1 to 12.

26. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, the computer program comprises program instructions, and when the program instructions are executed by a computer, the computer is enabled to perform the method according to any one of claims 1 to 12.

27. A computer program product, comprising computer program code, wherein when the computer program code is run on a computer, the computer is enabled to implement the method according to any one of claims 1 to 12.