## CLAIMS

What is claimed is:

1. A channel indication method, comprising:

sending, by a first device, a first request frame, wherein the first request frame comprises first indication information, the first indication information indicates a subchannel on which the first device is allowed to perform transmission and/or a subchannel on which the first device is forbidden to perform transmission in a first bandwidth, the first bandwidth is a maximum channel bandwidth supported by the first device or a preset bandwidth, and the preset bandwidth is one of 320 MHz, 160 MHz, 80 MHz, 40 MHz, and 20 MHz; and

receiving, by the first device, a first response frame, wherein the first device is a station.

2. The method according to claim 1, wherein the first request frame is a probe request frame, and the first response frame is a probe response frame; and

after the receiving, by the first device, a first response frame, the method further comprises:

sending, by the first device, an association request frame; and

receiving, by the first device, an association response frame.

3. The method according to claim 1, wherein the first request frame is an association request frame, and the first response frame is an association response frame; and

before the sending, by a first device, a first request frame, the method further comprises:

receiving, by the first device, a beacon frame, wherein the beacon frame comprises an extremely high throughput (EHT) operation element, the EHT operation element comprises a disabled subchannel bitmap, the disabled subchannel bitmap indicates a subchannel on which transmission is allowed and a subchannel on which transmission is forbidden in a basic service set BSS bandwidth of a second device, and the second device is an access point.

4. The method according to claim 1, wherein the first request frame is a pairing request frame, and the first response frame is a pairing response frame.

5. A channel indication method, comprising:

receiving, by a second device, a first request frame, wherein the first request frame comprises first indication information, the first indication information indicates a subchannel on which a first device is allowed to perform transmission and/or a subchannel on which the first device is forbidden to perform transmission in a first bandwidth, the first bandwidth is a maximum channel bandwidth supported by the first device or a preset bandwidth, the preset bandwidth is one of 320 MHz, 160 MHz, 80 MHz, 40 MHz, and 20 MHz, and the first device is a station; and

sending, by the second device, a first response frame, wherein the second device is an access point or a station other than the first device.

6. The method according to claim 5, wherein the first request frame is a probe request frame, the first response frame is a probe response frame, and the second device is an access point; and

after the sending, by the second device, a first response frame, the method further comprises:

receiving, by the second device, an association request frame; and

sending, by the second device, an association response frame.

7. The method according to claim 5, wherein the first request frame is an association request frame, the first response frame is an association response frame, and the second device is an access point; and

before the receiving, by a second device, a first request frame, the method further comprises:

sending, by the second device, a beacon frame, wherein the beacon frame comprises an EHT operation element, the EHT operation element comprises a disabled subchannel bitmap, and the disabled subchannel bitmap indicates a subchannel on which transmission is allowed and a subchannel on which transmission is forbidden in a BSS bandwidth of the second device.

8. The method according to claim 5, wherein the first request frame is a pairing request frame, the first response frame is a pairing response frame, and the second device is a station other than the first device.

9. The method according to any one of claims 1 to 8, wherein the first indication information is a bitmap, and a bit in the first indication information indicates whether the first device is allowed to perform transmission on a subchannel corresponding to the bit.

10. The method according to any one of claims 1 to 9, wherein the first request frame further comprises one or more of the following information: a presence indication of the first indication information, first station type indication information, first sector indication information, and first sector presence indication;

the presence indication of the first indication information is set to a first value, to indicate that the first indication information is present in the first request frame;

the first station type indication information indicates a type of the first device, and the type of the first device is a type of a station connected to an automated frequency coordination (AFC) system;

the first sector indication information indicates a sector direction in which the first device is allowed to perform transmission and/or a sector direction in which the first device is forbidden to perform transmission in the first bandwidth; and

the first sector presence indication indicates whether the first sector indication information is present in the first request frame.

11. The method according to claim 10, wherein the first sector indication information is a bitmap, and a bit in the first sector indication information indicates whether the first device is

allowed to perform transmission in a sector direction corresponding to the bit; or

the first sector indication information comprises one or more sector identifiers, and the first device is allowed or forbidden to perform transmission in sector directions respectively identified by the one or more sector identifiers.

12. The method according to any one of claims 1 to 11, wherein the first response frame comprises one or more of the following information: second indication information, a presence indication of the second indication information, second station type indication information, second sector indication information, and a second sector presence indication;

the second indication information indicates a subchannel on which transmission is allowed and/or a subchannel on which transmission is forbidden in the BSS bandwidth of the second device, or the second indication information indicates a subchannel on which transmission is allowed and/or a subchannel on which transmission is forbidden in a second bandwidth, and the second bandwidth is a maximum channel bandwidth supported by the second device or the preset bandwidth;

the presence indication of the second indication information indicates whether the second indication information is present in the first response frame;

the second station type indication information indicates a type of the second device, and the type of the second device is one of a standard-power access point type, a type of a station connected to the standard-power access point, the type of the station connected to the AFC system, and a type of a station connected to a low-power access point;

the second sector indication information indicates a sector direction in which transmission is allowed and/or a sector direction in which transmission is forbidden in the BSS bandwidth of the second device, or the second sector indication information indicates a sector direction in which transmission is allowed and/or a sector direction in which transmission is forbidden in the second bandwidth; and

the second sector presence indication indicates whether the second sector indication information is present in the first response frame.

13. The method according to claim 12, wherein the second sector indication information is a bitmap, and a bit in the second sector indication information indicates whether the second device is allowed to perform transmission in a sector direction corresponding to the bit; or

the second sector indication information comprises one or more sector identifiers, and the second device is allowed or forbidden to perform transmission in sector directions respectively identified by the one or more sector identifiers.

14. A communication apparatus, comprising a processor and a transceiver, wherein the

transceiver is configured to receive and send a frame, and when the processor runs program instructions, the communication apparatus is enabled to perform the method according to any one of claims 1 to 13.

15. A computer-readable storage medium, wherein the computer-readable storage medium stores program instructions, and when the program instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 13.