CLAIMS

1. A data transmission method, comprising:

sending, by an access point, first indication information to a first station, wherein the first indication information indicates that the access point accepts the first station to obtain sensing information of a second station; and

sending, by the access point, the sensing information to the first station, wherein

the access point is a proxy of the first station, the proxy is configured to obtain the sensing information for the first station, the first station is a sensing by proxy (SBP) requesting station, and the second station is an SBP responding station.

2. The method according to claim 1, wherein before the sending, by an access point, first indication information to a first station, the method further comprises:

sending, by the access point, first request information to the second station, wherein the first request information is used to request to obtain the sensing information for the first station; and

receiving, by the access point, second indication information sent by the second station, wherein the second indication information indicates that the second station accepts the first station to obtain the sensing information.

3. The method according to claim 2, wherein the first request information comprises verification information of the first station, and the verification information indicates an identity of the first station.

4. The method according to claim 2 or 3, wherein the method further comprises:

receiving, by the access point, first information sent by the second station, wherein the first information indicates that the first station is a trusted station of the second station; and

sending, by the access point, the first information to the first station.

5. The method according to any one of claims 2 to 4, wherein before the sending, by the access point, first request information to the second station, the method further comprises:

determining, by the access point, that the sensing information is first-type sensing information, wherein the first-type sensing information is sensing information that needs to be authorized by the second station; and/or

determining, by the access point, that the first station is a first-type station, wherein the first-type station is a station that needs to be authorized by the second station.

6. The method according to claim 1, wherein before the sending, by an access point, first indication information to a first station, the method further comprises:

receiving, by the access point, third indication information sent by the second station, wherein

the third indication information indicates that the second station accepts any station to obtain the sensing information.

7. The method according to claim 1, wherein before the sending, by an access point, first indication information to a first station, the method further comprises:

determining, by the access point, that the sensing information is second-type sensing information, wherein the second-type sensing information is sensing information that does not need to be authorized by the second station; and/or

determining, by the access point, that the first station is a second-type station, wherein the second-type station is a station that does not need to be authorized by the second station.

8. The method according to any one of claims 1 to 7, wherein after the sending, by the access point, the sensing information to the first station, the method further comprises:

determining, by the access point, that a third station is a trusted station of the first station; and

sending, by the access point, the sensing information to the third station, wherein

the access point is a proxy of the third station, the proxy is configured to obtain the sensing information for the third station, and the third station is an SBP requesting station.

9. The method according to claim 8, wherein the determining, by the access point, that a third station is a trusted station of the first station comprises:

sending, by the access point, first polling information to the first station, wherein the first polling information is used to poll whether the third station is the trusted station of the first station; and

receiving, by the access point, fourth indication information sent by the first station, wherein the fourth indication information indicates that the third station is the trusted station of the first station.

10. The method according to any one of claims 1 to 7, wherein after the sending, by the access point, the sensing information to the first station, the method further comprises:

determining, by the access point, that a fourth station is a trusted station of the second station; and

sending, by the access point, sensing information of the fourth station to the first station, wherein

the proxy is further configured to obtain the sensing information of the fourth station for the first station, and the fourth station is an SBP responding station.

11. The method according to claim 10, wherein the determining, by the access point, that a fourth station is a trusted station of the second station comprises:

sending, by the access point, second polling information to the second station, wherein the second polling information is used to poll whether the fourth station is the trusted station of the second station; and

receiving, by the access point, fifth indication information sent by the second station, wherein

the fifth indication information indicates that the fourth station is the trusted station of the second station.

12. The method according to any one of claims 1 to 11, wherein the method further comprises:

sending, by the access point, a station list to the first station, wherein the station list comprises at least one SBP responding station, and the station list comprises the second station.

13. The method according to claim 12, wherein the method further comprises:

sending, by the access point, sensing information of any SBP responding station in the station list to the first station.

14. A communication apparatus, comprising:

a transceiver unit, configured to send first indication information to a first station, wherein the first indication information indicates that the apparatus accepts the first station to obtain sensing information of a second station;

the transceiver unit is further configured to send the sensing information to the first station; and

the communication apparatus is a proxy of the first station, the proxy is configured to obtain the sensing information for the first station, the first station is an SBP requesting station, and the second station is an SBP responding station.

15. The apparatus according to claim 14, wherein

the transceiver unit is further configured to send first request information to the second station, wherein the first request information is used to request to obtain the sensing information for the first station; and

the transceiver unit is further configured to receive second indication information sent by the second station, wherein the second indication information indicates that the second station accepts the first station to obtain the sensing information.

16. The apparatus according to claim 15, wherein the first request information comprises verification information of the first station, and the verification information indicates an identity of the first station.

17. The apparatus according to claim 15 or 16, wherein

the transceiver unit is further configured to receive first information sent by the second station, wherein the first information indicates that the first station is a trusted station of the second station; and

the transceiver unit is further configured to send the first information to the first station.

18. The apparatus according to any one of claims 15 to 17, wherein the apparatus further comprises a determining unit;

the determining unit is configured to determine that the sensing information is first-type sensing

information, wherein the first-type sensing information is sensing information that needs to be authorized by the second station; and/or

the determining unit is configured to determine that the first station is a first-type station, wherein the first-type station is a station that needs to be authorized by the second station.

19. The apparatus according to claim 14, wherein

the transceiver unit is further configured to receive third indication information sent by the second station, wherein the third indication information indicates that the second station accepts any station to obtain the sensing information.

20. The apparatus according to claim 14, wherein the apparatus further comprises a determining unit;

the determining unit is configured to determine that the sensing information is second-type sensing information, wherein the second-type sensing information is sensing information that does not need to be authorized by the second station; and/or

the determining unit is configured to determine that the first station is a second-type station, wherein the second-type station is a station that does not need to be authorized by the second station.

21. The apparatus according to any one of claims 14 to 20, wherein the apparatus further comprises the determining unit;

the determining unit is configured to determine that a third station is a trusted station of the first station;

the transceiver unit is further configured to send the sensing information to the third station; and

the apparatus is a proxy of the third station, the proxy is configured to obtain the sensing information for the third station, and the third station is an SBP requesting station.

22. The apparatus according to claim 21, wherein

the transceiver unit is further configured to send first polling information to the first station, wherein the first polling information is used to poll whether the third station is the trusted station of the first station; and

the transceiver unit is further configured to receive fourth indication information sent by the first station, wherein the fourth indication information indicates that the third station is the trusted station of the first station.

23. The apparatus according to any one of claims 14 to 20, wherein the apparatus further comprises the determining unit;

the determining unit is configured to determine that a fourth station is a trusted station of the second station;

the transceiver unit is further configured to send sensing information of the fourth station to the

first station; and

the proxy is further configured to obtain the sensing information of the fourth station for the first station, and the fourth station is an SBP responding station.

24. The apparatus according to claim 23, wherein

the transceiver unit is further configured to send second polling information to the second station, wherein the second polling information is used to poll whether the fourth station is the trusted station of the second station; and

the transceiver unit is further configured to receive fifth indication information sent by the second station, wherein the fifth indication information indicates that the fourth station is the trusted station of the second station.

25. The apparatus according to any one of claims 14 to 24, wherein

the transceiver unit is further configured to send a station list to the first station, wherein the station list comprises at least one SBP responding station, and the station list comprises the second station.

26. The apparatus according to claim 25, wherein

the transceiver unit is further configured to send sensing information of any SBP responding station in the station list to the first station.

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

28. A computer program product, comprising instructions, wherein when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 13.