

CLAIMS

What is claimed is:

1. An information indication method, comprising:

generating a physical layer protocol data unit (PPDU), wherein the PPDU comprises sensing indication information, the sensing indication information indicates that the PPDU is a PPDU used for sensing measurement;

wherein the PPDU is a directional multi-gigabit (DMG) single carrier (SC) mode PPDU, an enhanced directional multi-gigabit (EDMG) SC mode PPDU, or an EDMG orthogonal frequency division multiplexing (OFDM) mode PPDU; and

sending the PPDU.

2. An information indication method, comprising:

receiving a physical layer protocol data unit (PPDU), wherein the PPDU comprises sensing indication information, the sensing indication information indicates that the PPDU is a PPDU used for sensing measurement;

wherein the PPDU is a directional multi-gigabit (DMG) single carrier (SC) mode PPDU, an enhanced directional multi-gigabit (EDMG) SC mode PPDU, or an EDMG orthogonal frequency division multiplexing (OFDM) mode PPDU; and

determining, based on the sensing indication information, that the PPDU is the PPDU used for sensing measurement.

3. The method according to claim 1 or 2, wherein the PPDU is the EDMG SC mode PPDU, the EDMG SC mode PPDU comprises an EDMG-header-A field, and the EDMG-header-A field carries the sensing indication information.

4. The method according to claim 1 or 2, wherein the PPDU is the EDMG OFDM mode PPDU, the EDMG OFDM mode PPDU comprises an EDMG-header-A field, and the EDMG-header-A field carries the sensing indication information.

5. The method according to claim 3 or 4, any reserved bit in the EDMG-header-A field carries the sensing indication information.

6. The method according to claim 1 or 2, wherein the PPDU is the DMG SC mode PPDU, the DMG SC mode PPDU comprises a DMG header field, and an additional PPDU indication field and a training length indication field in the DMG header field carry the sensing indication information.

7. The method according to claim 6, wherein the additional PPDU indication field is a B30 field in the DMG header field, and the training length indication field is a B32 field to a B36 field in the DMG header field.

8. The method according to claim 1 or 2, wherein the PPDU is the EDMG SC mode PPDU or the EDMG OFDM mode PPDU, the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises an L-header field, and an additional PPDU indication field in the L-header field carries the sensing indication information.

9. The method according to claim 8, wherein the additional PPDU indication field is a B30 field in the L-header field.

10. The method according to claim 8 or 9, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises an EDMG-header-A field, and a DMG training indication field in the EDMG-header-A field indicates that the PPDU comprises a DMG training field or the PPDU comprises an EDMG training field.

11. The method according to claim 10, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises the DMG training field, and a training length indication field in the L-header field indicates a length of the DMG training field.

12. The method according to claim 11, wherein the training length indication field is a B32 field to a B36 field in the L-header field.

13. The method according to claim 10, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises the EDMG training field, and an EDMG training length indication field in the EDMG-header-A field indicates a length of the EDMG training field.

14. The method according to claim 13, wherein the EDMG training length indication field is a B64 field to a B71 field in the EDMG-header-A field.

15. A communication apparatus, comprising:

a processing unit, configured to generate a physical layer protocol data unit (PPDU), wherein the PPDU comprises sensing indication information, the sensing indication information indicates that the PPDU is a PPDU used for sensing measurement;

wherein the PPDU is a directional multi-gigabit (DMG) single carrier (SC) mode PPDU, an enhanced directional multi-gigabit (EDMG) SC mode PPDU, or an EDMG orthogonal frequency division multiplexing (OFDM) mode PPDU; and

a transceiver unit, configured to send the PPDU.

16. A communication apparatus, comprising:

a transceiver unit, configured to receive a physical layer protocol data unit (PPDU), wherein the PPDU comprises sensing indication information, the sensing indication information indicates that the PPDU is a PPDU used for sensing measurement;

wherein the PPDU is a directional multi-gigabit (DMG) single carrier (SC) mode PPDU, an enhanced directional multi-gigabit (EDMG) SC mode PPDU, or an EDMG orthogonal frequency division multiplexing (OFDM) mode PPDU; and

a processing unit, configured to determine, based on the sensing indication information, that the PPDU is the PPDU used for sensing measurement.

17. The apparatus according to claim 15 or 16, wherein the PPDU is the EDMG SC mode PPDU, the EDMG SC mode PPDU comprises an EDMG-header-A field, and the EDMG-header-A field carries the sensing indication information.

18. The apparatus according to claim 15 or 16, wherein the PPDU is the EDMG OFDM mode PPDU, the EDMG OFDM mode PPDU comprises an EDMG-header-A field, and the EDMG-header-A field carries the sensing indication information.

19. The apparatus according to claim 17 or 18, any reserved bit in the EDMG-header-A field carries the sensing indication information.

20. The apparatus according to claim 15 or 16, wherein the PPDU is the DMG SC mode PPDU, the DMG SC mode PPDU comprises a DMG header field, and an additional PPDU indication field and a training length indication field in the DMG header field carry the sensing indication information.

21. The apparatus according to claim 20, wherein the additional PPDU indication field is a B30 field in the DMG header field, and the training length indication field is a B32 field to a B36 field in the DMG header field.

22. The apparatus according to claim 15 or 16, wherein the PPDU is the EDMG SC mode PPDU or the EDMG OFDM mode PPDU, the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises an L-header field, and an additional PPDU indication field in the L-header field carries the sensing indication information.

23. The apparatus according to claim 22, wherein the additional PPDU indication field is a B30 field in the L-header field.

24. The apparatus according to claim 22 or 23, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises an EDMG-header-A field, and a DMG training indication field in the EDMG-header-A field indicates that the PPDU comprises a DMG training field or the PPDU comprises an EDMG training field.

25. The apparatus according to claim 24, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises the DMG training field, and a training length indication field in the L-header field indicates a length of the DMG training field.

26. The apparatus according to claim 25, wherein the training length indication field is a B32 field to a B36 field in the L-header field.

27. The apparatus according to claim 24, wherein the EDMG SC mode PPDU or the EDMG OFDM mode PPDU comprises the EDMG training field, and an EDMG training length indication field in the EDMG-header-A field indicates a length of the EDMG training field.

28. The apparatus according to claim 27, wherein the EDMG training length indication field is a B64 field to a B71 field in the EDMG-header-A field.

5 29. A computer-readable storage medium, comprising a computer program or instructions, wherein when the computer program or instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 14.

 30. 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 14.

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