WHAT IS CLAIMED IS:

1. A communication method comprising:

transmitting or receiving data using one or more resource units (RUs) of a plurality of RUs in a first frequency band having a first bandwidth (BW) for orthogonal frequency division multiple access (OFDMA);

wherein each of the plurality of RUs comprises a plurality of subcarriers;

wherein the subcarriers of any one of the plurality of RUs are different from the subcarriers of any other one of the plurality of RUs;

wherein the subcarriers of each of the plurality of RUs are substantially distributed over the entire first frequency band;

wherein the first frequency band is a sub-band of a second frequency band, the second frequency band having a second BW greater than the first BW;

wherein the second frequency band has a punctured sub-band temporarily unavailable for the data and/or pilot transmission; and

wherein the first frequency band is selected from the second frequency band excluding the punctured sub-band.

2. The communication method of claim 1, wherein the second frequency band is partitionable to a plurality of sub-bands having a same BW; the punctured sub-band corresponds to one or more of the plurality of sub-bands; and the first frequency band comprises one or more of the plurality of sub-bands excluding the punctured sub-band.

3. The communication method of claim 1 or 2, wherein the second frequency band has an 80 Megahertz (MHz) BW and is partitionable to four sub-bands each having a 20 MHz BW; the punctured sub-band has a maximum of 20 MHz BW and the first frequency band has a 20 MHz or 40 MHz BW, or the punctured sub-band has a maximum of 40 MHz BW and the first frequency band has a 20 MHz or 40MHz BW.

4. The communication method of claim 1 or 2, wherein the first frequency band has a 20 MHz or 40 MHz BW, and the second frequency band has an 80 MHz BW.

5. The communication method of any one of claims 1 to 4 further comprising:

transmitting or receiving second data using one or more RUs of another plurality of RUs in a third frequency band;

wherein the third frequency band is a sub-band of the second frequency band;

wherein the third frequency band is selected from the second frequency band excluding the punctured sub-band; and

wherein the second frequency band has an 80 MHz BW, the punctured sub-band has a maximum of 20 MHz BW, the first frequency band has a 20 MHz, and the third frequency band has a 40 MHz BW.

6. One or more processors functionally connected to one or more non-transitory, computer-readable storage media comprising computer-executable instructions, wherein the instructions, when executed, cause the one or more processors to perform the method of any one of claims 1 to 5.

7. One or more non-transitory computer-readable storage media comprising computer-executable instructions, wherein the instructions, when executed, cause one or more processors to perform the method of any one of claims 1 to 5.

8. A communication method comprising:

transmitting or receiving first data using one or more first resource units (RUs) of a plurality of first RUs in a first frequency band having a first bandwidth (BW) for orthogonal frequency division multiple access (OFDMA);

wherein each of the plurality of first RUs comprises a plurality of subcarriers; and

wherein, in each first RU of the plurality of first RUs, at least two neighboring subcarriers thereof are separated by one or more subcarriers belonging to one or more other first RUs of the plurality of first RUs.

9. The communication method of claim 8, wherein, in each of the one or more first RUs, at least two neighboring subcarriers thereof are separated by one or more subcarriers of one or more other first RUs of the plurality of first RUs.

10. The communication method of claim 8, wherein the subcarriers of any one of the plurality of first RUs are different from the subcarriers of any other one of the plurality of first RUs; and

wherein the subcarriers of each of the plurality of first RUs are substantially distributed over the entire first frequency band.

11. The communication method of claim 8, wherein the subcarriers of the plurality of first RUs are interleaved such that a subcarrier of one of the plurality of first RUs is an immediately adjacent subcarrier of another one of the plurality of first RUs.

12. The communication method of claim 8, wherein the first frequency band comprises a plurality of unusable subcarriers that are unusable for data and/or pilot transmission; and

wherein the subcarriers of each of the plurality of first RUs are equidistantly interleaved when the plurality of unusable subcarriers are uncounted.

13. The communication method of claim 8, wherein the first frequency band comprises a plurality of unusable subcarriers that are unusable for data and/or pilot transmission; and

wherein the unusable subcarriers and the plurality of first RUs in the first frequency band are substantially aligned with unusable subcarriers and a plurality of second RUs in a second frequency band, respectively, the second frequency band comprising the first frequency band and having a second BW different from the first BW.

14. The communication method of claim 8, wherein the unusable subcarriers comprise a plurality of guard subcarriers, a plurality of null subcarriers, and/or a plurality of direct-current (DC) subcarriers.

15. The communication method of claim 8 further comprising:

transmitting or receiving second data using one or more second RUs of a plurality of second RUs in a second frequency band;

wherein the second frequency band comprises the first frequency band and has a second BW different from the first BW;

wherein the subcarriers of each of the one or more first RUs are substantially distributed over the entire first frequency band; and

wherein the subcarriers of each of the one or more second RUs are substantially distributed over the entire second frequency band.

16. The communication method of claim 8, wherein said transmitting or receiving the first data and said transmitting or receiving the second data are substantially at same time.

17. The communication method of claim 13, wherein the second data is transmitted in a physical layer protocol data unit (PPDU);

wherein the PPDU comprises a SIG field in a preamble of the PPDU; and

wherein the SIG field comprises an indication indicating that a portion of the second frequency band is also used as the first frequency band.

18. The communication method of claim 13, wherein the second frequency band comprises a third frequency band un-overlapped with the first frequency band; and

wherein the communication method further comprises:

transmitting or receiving third data using one or more third RUs in the third frequency band; and

wherein each of the one or more third RUs comprises, when unusable subcarriers are uncounted, a plurality of consecutive subcarriers.

19. One or more processors functionally connected to one or more non-transitory, computer-readable storage media comprising computer-executable instructions, wherein the instructions, when executed, cause the one or more processors to perform the method of any one of claims 8 to 18.

20. One or more non-transitory computer-readable storage media comprising computer-executable instructions, wherein the instructions, when executed, cause one or more processors to perform the method of any one of claims 8 to 18.