CLAIMS

1. An apparatus comprising:

means for performing processing (1212) for a first portion of a frame to be transmitted corresponding to a preamble of the frame and sent using a first operating bandwidth based on a first set of parameter values for a first design bandwidth applicable to the first portion; and

means for performing processing (1214) for a second portion of the frame to be transmitted corresponding to a main body of the frame and sent using a second operating bandwidth based on a second set of parameter values for a second design bandwidth applicable to the second portion; and

means for sending signaling on a first set of subcarriers used for the first portion of the frame to be transmitted and determined based on the first operating bandwidth; and

means for sending data on a second set of subcarriers used for the second portion of the frame to be transmitted and determined based on the second operating bandwidth; and

wherein the means for performing processing for the first portion comprises means for processing the signaling to obtain information for the second set of parameter values for the second portion of the frame to be transmitted.

2. The apparatus of claim 1, wherein the first operating bandwidth is smaller than the second operating bandwidth.

3. The apparatus of claim 1, wherein the second set of parameters comprise the second operating bandwidth, a fast Fourier transform (FFT) size, a cyclic prefix length, a frequency hopping sequence, or a combination thereof.

4. The apparatus of claim 1, wherein the means for performing processing for the first portion comprises means for processing the signaling to obtain information for parameters for the second portion of the frame to be transmitted, and wherein the means for performing processing for the second portion comprises means for processing the second portion of the frame to be transmitted based on the information obtained from the signaling.

5. The apparatus of claim 1, comprising means for performing processing for the first and second portions of the frame to be transmitted based on a set of parameter values for a design bandwidth applicable to the first and second portions.

6. The apparatus of claim 1, wherein the first design bandwidth is in a first set of design bandwidths applicable for the first portion and the second design bandwidth is in a second set of design bandwidths applicable for the second portion, the first set including fewer design bandwidths than the second set.

7. The apparatus of claim 1, wherein the first operating bandwidth is selected from a first set of operating bandwidths available for the first portion, and wherein the second operating bandwidth is selected from a second set of operating bandwidths available for the second portion.

8. The apparatus of claim 7, wherein the first set includes fewer operating bandwidths than the second set.

9. A method comprising:

performing processing (1212) for a first portion of a frame to be transmitted corresponding to a preamble and sent using a first operating bandwidth based on a first set of parameter values for a first design bandwidth applicable to the first portion; and

performing processing (1214) for a second portion of the frame to be transmitted corresponding to a main body of the frame sent using a second operating bandwidth based on a second set of parameter values for a second design bandwidth applicable to the second portion; and

sending signaling on a first set of subcarriers used for the first portion of the transmitted frame and determined based on the first operating bandwidth; and

sending data on a second set of subcarriers used for the second portion of the transmitted frame and determined based on the second operating bandwidth; and

wherein the performing processing for the first portion comprises processing the signaling to obtain information for the second set of parameter values for the second portion of the frame to be transmitted.

10. The method of claim 9, wherein the performing processing for the second portion comprises processing the second portion of the frame to be transmitted based on the information obtained from the signaling.

11. A computer-readable medium comprising instructions which when executed by a processor cause the processor to perform a method according to claims 9 or 10.