

CLAIMS:

1. A communication apparatus, comprising:
a communication unit configured to transmit a trigger frame including sub area information in which a sub area is specified from a resource area including wireless communication resources selectable as uplink resources and receive a response frame to the trigger frame.
2. The communication apparatus according to claim 1, wherein the communication unit receives the response frame on the basis of the sub area information.
3. The communication apparatus according to claim 1, wherein the response frame is transmitted using at least one wireless communication resource selected from the sub area.
4. The communication apparatus of claim 3, wherein the trigger frame includes at least information related to a type of the trigger frame.
5. The communication apparatus of claim 4, wherein the trigger frame further includes information related to a size of the response frame.
6. The communication apparatus of claim 5, wherein the sub area information includes at least a first field, a second field and a third field, the first field including information related to MCS, the second field including information related to frequency resources, the third field including information related to spatial streams.
7. The communication apparatus of claim 6, wherein the trigger frame includes a plurality of the sub area information.
8. The communication apparatus of claim 7, wherein information included in the first field is used by other communication apparatus that receives the trigger frame to identify the sub area information.
9. The communication apparatus according to claim 1, wherein the response frame includes a frame related to an uplink communication request.

10. The communication apparatus according to claim 1, wherein the sub area is decided on the basis of attribute information associated with transmission of an uplink frame related to the response frame.
11. The communication apparatus according to claim 10, wherein the attribute information associated with the transmission of the uplink frame includes a type of frame.
12. The communication apparatus according to claim 10, wherein the attribute information associated with the transmission of the uplink frame includes a size of data to be transmitted.
13. The communication apparatus according to claim 10, wherein the attribute information associated with the transmission of the uplink frame includes information related to redundancy of communication of the uplink frame.
14. The communication apparatus according to claim 13, wherein the information related to the redundancy of communication includes information related to at least one of a modulation scheme and a coding rate.
15. The communication apparatus according to claim 10, wherein the attribute information associated with the transmission of the uplink frame includes information related to a communication state of a transmission apparatus of the uplink frame.
16. The communication apparatus according to claim 15, wherein the information related to the communication state of the transmission apparatus includes information related to radio wave propagation characteristics.
17. The communication apparatus according to claim 1, wherein the trigger frame is transmitted for each channel of a channel bonding target.
18. The communication apparatus according to claim 1, wherein, in a case where a signal is detected in the sub area, the communication unit detects the presence of a response frame on the basis of the sub area information.

19. The communication apparatus according to claim 1, wherein, when a signal for the response frame is received, the communication unit transmits a frame serving as a response to the response frame.

20. A communication apparatus, comprising:

a communication unit configured to receive a trigger frame including sub area information in which a sub area is specified from a resource area including wireless communication resources selectable as uplink resources and transmit a response frame to the trigger frame.

21. The communication apparatus according to claim 20, wherein the communication unit transmits the response frame using at least one of the wireless communication resources selected from the sub area specified from the sub area information.

22. The communication apparatus of claim 21, wherein the trigger frame includes at least information related to a type of the trigger frame.

23. The communication apparatus of claim 22, wherein the trigger frame further includes information related to a size of the response frame.

24. The communication apparatus of claim 23, wherein the sub area information includes at least a first field, a second field and a third field, the first field including information related to MCS, the second field including information related to frequency resources, the third field including information related to spatial streams.

25. The communication apparatus of claim 24, wherein the trigger frame includes a plurality of the sub area information.

26. The communication apparatus of claim 25, wherein information included in the first field is used by other communication apparatus that receives the trigger frame to identify the sub area information.

27. A communication method, comprising:

transmitting a trigger frame including sub area information in which a sub area is specified from a resource area including wireless communication resources selectable as uplink resources; and receiving a response frame to the trigger frame.

28. A communication method, comprising:

receiving a trigger frame including sub area information in which a sub area is specified from a resource area including wireless communication resources selectable as uplink resources; and transmitting a response frame to the trigger frame.