CLAIMS

1. A communication apparatus (AP) configured to

transmit a frame in which information regarding a transmission waiting period of another terminal is described,

operate as an access point, and

describe in the frame which notifies a subordinate terminal of allowance of multi user transmission, the information designating a transmission waiting period of the terminal after the multi user transmission is finished,

wherein the communication apparatus is configured to transmit the frame in which the information designating a transmission waiting period in accordance with a number of times of transmission of the terminal is described.

2. The communication apparatus according to claim 1,

wherein the communication apparatus is configured to transmit the frame in which information designating to each terminal a transmission waiting period longer than a transmission waiting period in a case where the communication apparatus performs multi user transmission after the multi user transmission is finished is described.

3. The communication apparatus according to claim 1 or 2,

wherein the communication apparatus is configured to transmit the frame in which the information designating a transmission waiting period different for each terminal is described.

4. The communication apparatus according to claim 1,

wherein the communication apparatus is configured to transmit the frame in which the information designating a transmission waiting period such that a terminal whose number of times of transmission is smaller has a shorter transmission waiting period than a terminal whose number of times of transmission is larger is described.

5. The communication apparatus according to claim 1,

wherein the communication apparatus is configured to transmit the frame in which the information designating a shorter transmission waiting period for a terminal which

performs data retransmission than a transmission waiting period of another terminal, is described.

6. The communication apparatus according to any one of the preceding claims,

wherein the communication apparatus is configured to transmit the frame in which the information designating a longer transmission waiting period for the terminal which is allowed to perform multi user transmission, than a remaining transmission waiting period of a terminal which performs data retransmission is described.

7. The communication apparatus according to any one of the preceding claims,

wherein the communication apparatus is configured to transmit the frame in which a category favorable for the multi user transmission and the information designating a transmission waiting period for the terminal after the multi user transmission is finished are described.

8. The communication apparatus according to claim 7,

wherein the communication apparatus is configured to transmit the frame in which the information designating a transmission waiting period for the terminal in accordance with the category is described.

9. The communication apparatus according to any one of the preceding claims,

wherein, in the frame in which a category with higher priority is designated, the information designating a transmission waiting period shorter than a remaining period of a transmission waiting period set in a case where a category with lower priority is designated is described.

10. The communication apparatus according to any one of the preceding claims, wherein the communication apparatus is configured to transmit a frame in which information regarding a transmission waiting period of the communication apparatus upon next frame transmission is described.

11. The communication apparatus according to claim 10,

wherein the communication apparatus is configured to operate as an access point, and to describe the information regarding the transmission waiting period of the communication apparatus upon the next frame transmission in the frame which notifies a subordinate terminal of allowance of multi user transmission.

12. The communication apparatus according to claim 11,

wherein the communication apparatus is configured to describe a predetermined value as the information in a case where a next frame is not transmitted for a while after the frame is transmitted.

13. The communication apparatus according to claim 11,

wherein the communication apparatus is further is configured to describes in the frame, information regarding a transmission waiting period upon retransmission of a frame transmitted by the terminal through the multi user transmission.

14. The communication apparatus according to claim 13,

wherein the communication apparatus is configured to transmit the frame in which a category favorable for multi user transmission and the information regarding a transmission waiting period upon retransmission in accordance with the category are described.

15. A communication method comprising the steps of:

transmitting a frame in which information regarding a transmission waiting period of another terminal is described,

operating as an access point, and

describing in the frame which notifies a subordinate terminal of allowance of multi user transmission, the information designating a transmission waiting period of the terminal after the multi user transmission is finished,

wherein, in transmitting the frame, information designating a transmission waiting period in accordance with a number of times of transmission of the terminal is described.

16. A communication apparatus (STA) configured to set, on a basis of information regarding a transmission waiting period of the communication apparatus described in a

received frame, a transmission waiting period after communication processing relating to the received frame is performed,

wherein the communication apparatus is configured to set the transmission waiting period in accordance with a number of times of transmission of the communication apparatus.

17. The communication apparatus according to claim 16, wherein the communication apparatus is configured to set, on a basis of information regarding a transmission waiting period upon next frame transmission by a transmission source of a frame described in the received frame, a transmission waiting period of the communication apparatus after communication processing relating to the received frame is performed.

18. A communication method comprising the steps of:

setting, on a basis of information regarding a transmission waiting period of the communication apparatus described in a received frame, a transmission waiting period after communication processing relating to the received frame is performed,

wherein the transmission waiting period is set in accordance with a number of times of transmission of the communication apparatus.