CLAIMS

1. A communication apparatus that is any one of: a first communication apparatus and a second communication apparatus each being an access point (AP) participating in coordinated communication, a third communication apparatus and a fourth communication apparatus each being a station (STA) associated with the access point, the communication apparatus comprising:

a transmission circuitry, which in operation, transmit a signal; and

a control circuitry, which in operation, control transmission power of the signal based on first information and second information related to control of transmission power,

wherein the first information is information transmitted from the first communication apparatus, and the second information is information transmitted from the second communication apparatus.

2. The communication apparatus according to claim 1, wherein the coordinated communication is Coordinated Signal Reuse (C-SR).

3. The communication apparatus according to claim 2, wherein;

the first communication apparatus and the second communication apparatus cooperate with each other, and

a first frame transmission between the first communication apparatus and the third communication apparatus and a second frame transmission between the second communication apparatus and the fourth communication apparatus are performed simultaneously.

4. The communication apparatus according to claim 3, wherein;

the first communication apparatus is a sharing AP, and

the second communication apparatus is a shared AP.

5. The communication apparatus according to claim 3, wherein, in case that both the first frame transmission and the second frame transmission are uplink transmissions, the first information indicates acceptable maximum interference level at the first communication apparatus.

6. The communication apparatus according to claim 3, wherein, when both the first frame

transmission and the second frame transmission are downlink transmissions, the first information indicates a maximum transmission power of the second communication apparatus.

7. The communication apparatus according to claim 3, wherein the first information is included in a Multi-Access Point (MAP) trigger frame transmitted by the first communication apparatus to the second communication apparatus prior to the coordinated communication.

8. The communication apparatus according to claim 7, wherein the MAP trigger frame includes:

a first field indicating a trigger type; and

a second field indicating a MAP coordination scheme.

9. The communication apparatus according to claim 8, wherein, in case that the second field indicates C-SR, the transmission power of the signal is controlled based on the first information and the second information.

10. The communication apparatus according to claim 3, wherein information relating to transmission power of a signal transmitted from the access point to the station, included in the first information, is determined based on the second information.

11. The communication apparatus according to claim 10, wherein the information relating to transmission power is a maximum transmission power value.