CLAIMS

1. A communication apparatus, comprising:

control circuitry, which, in operation, determines one or more communication partner apparatuses that can communicate with the communication apparatus, and generates first coordination control information including information indicating the one or more communication partner apparatuses;

transmission circuitry, which, in operation, transmits the coordination control information to at least one of the one or more communication partner apparatuses; and

reception circuitry, which, in operation, receives, from at least one of the one or more communication partner apparatuses, second coordination control information including information indicating a third communication apparatus that can communicate with the least one of the one or more communication partner apparatuses.

2. The communication apparatus according to claim 1, wherein

the first coordination control information includes information indicating whether coordination control is enabled.

3. The communication apparatus according to claim 1, wherein

the first coordination control information includes information into which information on a plurality of fourth communication apparatuses associated with the communication apparatus is integrated.

4. The communication apparatus according to claim 1, wherein

the first coordination control information includes information on a channel between a fourth communication apparatus associated with the communication apparatus and the communication apparatus.

5. The communication apparatus according to claim 1, wherein

the first coordination control information includes information indicating an amount of data to be transmitted to a fourth communication apparatus associated with the communication apparatus and/or an amount of data to be received from the fourth communication apparatus.

6. The communication apparatus according to claim 1, wherein

the first coordination control information includes information on interference received by a fourth communication apparatus associated with the communication apparatus.

7. The communication apparatus according to claim 1, wherein

the first coordination control information includes information on a capability of a fourth communication apparatus associated with the communication apparatus or information on a request of the fourth communication apparatus.

8. The communication apparatus according to claim 1, wherein

the transmission circuitry transmits the first coordination control information using a beacon.

9. A communication method, comprising:

determining, by a communication apparatus, one or more communication partner apparatuses communicating with the communication apparatus;

generating, by the communication apparatus, first coordination control information including information indicating one or more communication partner apparatuses;

transmitting, by the communication apparatus, the coordination control information to at least one of the one or more communication partner apparatuses; and

receiving, from at least one of the one or more communication partner apparatuses, second coordination control information including information indicating a third communication apparatus that can communicate with the at least one of the one or more communication partner apparatuses.

10. The communication apparatus of claim 1, wherein the communication apparatus and the one or more communication partner apparatuses are access points.