CLAIMS

1. A communication apparatus, comprising:

control circuitry, which, in operation, generates information on inter-UE coordinated usage of a sidelink resource; and

transmission circuitry, which, in operation, transmits first sidelink control information and the second sidelink control information, wherein

the second sidelink control information is mapped to a sidelink data channel,

the second sidelink control information has a format of a plurality of second sidelink control information format,

the plurality of second sidelink control information formats includes a format indicating the information on inter-UE coordinated usage,

the first sidelink control information includes a bit field indicating a selected format of the second sidelink control information formats.

2. The communication apparatus according to Claim 1, wherein,

the transmission circuitry transmits the second sidelink control information to another communication apparatus, and

the information on inter-UE coordinated usage includes at least one of first information of a resource where the another communication apparatus is scheduled to perform transmission, second information of a resource where transmission by the transmission circuitry is scheduled, third information of a preferred resource recommended to the another communication apparatus to use, and fourth information of a non-preferred resource not recommended to the another communication apparatus to use.

3. The communication apparatus according to Claim 1, wherein,

the transmission circuitry transmits the second sidelink control information to another communication apparatus, and

the control circuitry does not cause another communication apparatus to perform transmission in a resource indicated to be available by the information on inter-UE coordinated usage.

4. The communication apparatus according to Claim 1, wherein,

the transmission circuitry transmits the second sidelink control information to another communication apparatus,

the control circuitry maps the information on inter-UE coordinated usage to a sidelink data channel, and

the transmission circuitry transmits, to the another communication apparatus, sidelink control information indicating that the information on inter-UE coordinated usage is transmitted in the sidelink data channel.

5. The communication apparatus according to Claim 1, wherein,

the transmission circuitry transmits the second sidelink control information to another communication apparatus,

the control circuitry maps the information on inter-UE coordinated usage to a feedback channel of sidelink, and

transmission of the information on inter-UE coordinated usage in the feedback channel is reserved based on prior communication with the another communication apparatus.

6. A communication apparatus, comprising:

reception circuitry, which, in operation,

receives first sidelink control information including a bit field indicating a format of a plurality of second sidelink control information formats,

receives second sidelink control information having the indicated format; and

receives a sidelink data channel, wherein,

the second sidelink control information is mapped to the sidelink data channel,

one of the plurality of second sidelink control information formats include information on inter-UE coordinated usage,

; and

control circuitry, which, in operation, in response to the indicated format including the information on inter-UE coordinated usage, determines a resource where transmission is performed in sidelink based on the information on inter-UE coordinated usage included in the indicated format of the second sidelink control information.

7. A sidelink communication control method, comprising:

transmitting first sidelink control information; and

transmitting second sidelink control information, wherein

the second sidelink control information is mapped to a sidelink data channel,

the second sidelink control information has a selected format of a plurality of second sidelink control information formats,

the plurality of second sidelink control information formats includes a format indicating information on inter-UE coordinated usage, and

the first sidelink control information includes a bit field indicating a selected format of the plurality of second sidelink control information formats.

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8. The communication apparatus according to claim 2, wherein the non-preferred resource is selected based on at least one of the second information and fifth information obtained by channel quality measurement.

9. The communication apparatus according to claim 2, wherein,

the preferred resource is a single resource or two or more resources, and

the non-preferred resource is a single resource or two or more resources.

10. The communication apparatus according to claim 1, wherein the another communication apparatus determines to follow or ignore the information on inter-UE coordinated usage.

11. The communication apparatus according to claim 1, wherein the information on inter-UE coordinated usage is determined according to a resource available for reception.

12. The communication apparatus according to claim 1, wherein the information on inter-UE coordinated usage is indicated in units of slots.

13. The communication apparatus according to claim 1, wherein,

the transmission circuitry transmits the second sidelink control information to another communication apparatus,

the second sidelink control information indicates a destination ID, and

the another communication apparatus is identified from the destination ID.

14. The communication apparatus according to claim 1, wherein,

a media access control (MAC) header includes a MAC control element (CE)

indicating transmission of the information on inter-UE coordinated usage of the sidelink resource, and

the information on inter-UE coordinated usage is transmitted in the MAC CE.