[0004] However, in coordinated communication applied to radio communication such as wireless LAN, an amount of information to be fed back by one communication apparatus to another communication apparatus possibly increases.

[0005] A non-limiting example of the present disclosure facilitates providing a communication apparatus and a communication method each capable of reducing an amount of information to be fed back in coordinated communication.

[0006] In one aspect, the present disclosure refers to a communication apparatus, comprising: control circuitry, which, in operation, determines a measurement value by measuring signals received from a plurality of other communication apparatuses, determines whether to switch a coordinated communication scheme based on the measurement value, and generates information on switching of coordinated communication based on the measurement value wherein the information indicates the determination result; and transmission circuitry, which, in operation, transmits the information.

[0006a] In another aspect, the present disclosure refers to a communication method, comprising: determining, by a communication apparatus, a measurement value by measuring signals received from a plurality of other communication apparatuses; determining, by the communication apparatus, whether to switch a coordinated communication scheme based on the measurement value; generating, by the communication apparatus, information on switching of coordinated communication based on the measurement value wherein the information indicates the determination result; and transmitting, by the communication apparatus, the information.

[0007] It should be noted that general or specific examples may be implemented as a system, an apparatus, a method, an integrated circuit, a computer program, a storage medium, or any selective combination thereof.

[0008] According to an example of the present disclosure, it is possible to reduce the amount of information to be fed back in coordinated communication.

[0009] Additional benefits and advantages of the disclosed examples will become apparent from the specification and drawings. The benefits and/or advantages may be individually obtained by the various examples and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.

Brief Description of Drawings

[0010]

FIG. 1 illustrates exemplary differentiation between MAP coordination schemes;

CLAIMS

[Claim 1] A communication apparatus, comprising:

control circuitry, which, in operation,

determines a measurement value by measuring signals received from a plurality of other communication apparatuses,

determines whether to switch a coordinated communication scheme based on the measurement value, and

generates information on switching of coordinated communication based on the measurement value wherein the information indicates the determination result; and

transmission circuitry, which, in operation, transmits the information.

[Claim 2] The communication apparatus according to claim 1, wherein

the control circuitry determines whether to switch the coordinated communication by comparing the measurement value and a threshold with each other.

[Claim 3] The communication apparatus according to claim 2, further comprising reception circuitry, which, in operation, receives configuration information on the threshold.

[Claim 4] The communication apparatus according to claim 3, wherein

the configuration information is included in an Event Request element, and

the feedback information is included in an Event Report element.

[Claim 5] The communication apparatus according to claim 3, wherein

the reception circuitry receives the configuration information included in a MAP Event element defined in a MAP Action frame, and

the transmission circuitry transmits the feedback information included in a MAP

Event element in a MAP Action frame.

[Claim 6] The communication apparatus according to claim 3, wherein

the reception circuitry receives the configuration information included in an STA statistics request included in a Radio Measurement Request, and

the transmission circuitry transmits the feedback information included in an STA statistics report included in a Radio Measurement Report.

[Claim 7] The communication apparatus according to claim 1, wherein

the control circuitry generates the feedback information based on a plurality of the measurement values at a plurality of points in time.

[Claim 8] The communication apparatus according to claim 2, wherein

the control circuitry determines whether to switch from a first coordinated communication scheme to a second coordinated communication scheme by comparing the measurement value and a first threshold with each other, and determines whether to switch from the second coordinated communication scheme to the first coordinated communication scheme by comparing the measurement value and a second threshold with each other, the second threshold being different from the first threshold.

[Claim 9] The communication apparatus according to claim 1, further comprising reception circuitry, which, in operation, receives indication information requesting the feedback information, wherein

the control circuitry generates the feedback information in response to the request.

[Claim 10] The communication apparatus according to claim 9, wherein

the indication information is configured with a type, and

the reception circuitry receives the indication information the type of which indicates a request for feedback information on switching of the coordinated communication.

[Claim 11] The communication apparatus according to claim 9, wherein

the indication information is configured with a type, and

the reception circuitry receives the indication information the type of which indicates a request for feedback information on measurement for the coordinated communication.

[Claim 12] The communication apparatus according to claim 9, wherein

the transmission circuitry transmits the feedback information using any one of an NDP feedback report, a Data frame, and a control frame.

[Claim 13] The communication apparatus according to claim 1, wherein

the feedback information is included in a parameter requested for link adaptation.

[Claim 14] The communication apparatus according to claim 1, wherein

the information indicating the determination result includes a recommended coordinated communication scheme.

[Claim 15] A communication method, comprising:

determining, by a communication apparatus, a measurement value by measuring signals received from a plurality of other communication apparatuses;

determining, by the communication apparatus, whether to switch a coordinated communication scheme based on the measurement value;

generating, by the communication apparatus, information on switching of

coordinated communication based on the measurement value wherein the information indicates the determination result; and

transmitting, by the communication apparatus, the information.