IEEE 802.11-20/0056r0, Preparations for Coordinated OFDMA

NPL 3

IEEE 802.11-20/0617r0, Multi-AP Operation -Basic Definition

NPL 4

IEEE P802.11ax/D6.0, November 2019

NPL 5

IEEE 802.11-19/1582r2, Coordinated AP Time/Frequency Sharing in a Transmit Opportunity in 11be

NPL 6

IEEE 802.11-19/1961r1, Multi-AP Group Establishment, 2020-01-02

NPL 7

IEEE 802.11-19/1972r1, Operation of Virtual BSS for Multi-AP Coordination, 2019-11-05

Summary

[0005] However, methods of controlling a transmission power in radio communication such as a wireless local area network (WLAN) have not been sufficiently discussed.

[0006] A non-limiting example facilitates providing an access point, a terminal, and a communication method each capable of flexibly controlling an uplink transmission power per terminal.

[0007] In one example, the present disclosure includes an access point comprising: control circuitry, which, in operation, generates a parameter relating to uplink transmission power control, based on information on transmission power control received from another access point; and transmission circuitry, which, in operation, transmits a control signal including the parameter.

[0007a] In another example, the present disclosure includes a terminal comprising: reception circuitry, which, in operation, receives a control signal including a parameter that relates to control of an uplink transmission power and is generated based on information on transmission power control received from another access point; and control circuitry, which, in operation, controls the uplink transmission power based on the parameter.

[0007b] In another example, the present disclosure includes a communication method, comprising: generating, by an access point, a parameter relating to uplink transmission power control, based on information on transmission power control received from another access point; and transmitting, by the access point, a control signal including the parameter.

[0007c] In another example, the present disclosure includes a communication method, comprising: receiving, by a terminal, a control signal including a parameter that relates to control of an uplink transmission power and is generated based on information on transmission power control received from another access point; and controlling, by the terminal, the uplink transmission power based on the parameter.

[0007d] In an aspect, the present disclosure refers to an access point, comprising:

control circuitry, which, in operation, generates a parameter relating to uplink transmission power control; and

transmission circuitry, which, in operation, transmits to another access point a control signal including the parameter,

wherein the parameter indicates a minimum value of a transmit power, which is used for a determination of the transmit power transmission at the another access point.

[0007e] In an aspect, the present disclosure refers to a communication method, comprising:

generating, by an access point, a parameter relating to uplink transmission power control; and

transmitting, by the access point, to another access point a control signal including the parameter,

wherein the parameter indicates a minimum value of a transmit power, which is used for a determination of the transmit power transmission at the another access point.

[0008] 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,

CLAIMS

Claim 1 An access point, comprising:

control circuitry, which, in operation, generates a parameter relating to uplink transmission power control; and

transmission circuitry, which, in operation, transmits to another access point a control signal including the parameter,

wherein the parameter indicates a minimum value of a transmit power, which is used for a determination of the transmit power transmission at the another access point.

Claim 2 The access point according to claim 1, wherein the control signal is transmitted at a negotiation phase, which is prior to a coordinated transmission of data from the another access point.

Claim 3 A communication method, comprising:

generating, by an access point, a parameter relating to uplink transmission power control; and

transmitting, by the access point, to another access point a control signal including the parameter,

wherein the parameter indicates a minimum value of a transmit power, which is used for a determination of the transmit power transmission at the another access point.