CLAIMS

[Claim 1]

A communication device comprising

transmission means for transmitting a radio frame including a preamble for physical layers (PHY) and compliant with an IEEE 802.11 standard series, wherein the preamble includes at least a Legacy Signal Field (L-SIG) and a Universal Signal Field (U-SIG) communicated after the L-SIG in the radio frame,

the U-SIG includes a PHY Version Identifier Field relating to a PHY version with which the radio frame is compliant, and a Bandwidth Field,

the transmission means enables transmission of a first type radio frame in which 0 is stored in the PHY Version Identifier Field, and a second type radio frame in which a specific value greater than 0 is stored in the PHY Version Identifier Field, and

when the second type radio frame in which the specific value is stored in the PHY Version Identifier Field and a value of 6 is stored in the Bandwidth Field is to be transmitted, the transmission means transmits the second type radio frame using a bandwidth of 480 MHz.

[Claim 2]

The communication device according to Claim 1, wherein when the first type radio frame in which 0 is stored in the PHY Version Identifier Field is to be transmitted, the transmission means transmits the first type radio frame using a bandwidth less than or equal to 320 Mhz.

[Claim 3]

The communication device according to Claim 1, wherein the Bandwidth Field of the U-SIG of the first type radio frame includes 3 bits, and the Bandwidth Field of the U-SIG of the second type radio frame includes at least 4 bits.

[Claim 4]

The communication device according to Claim 1, wherein the first type radio frame in which 0 is stored in the PHY Version Identifier Field is a radio frame compliant with an IEEE 802.11be standard.

[Claim 5]

The communication device according to Claim 1, wherein the PHY Version Identifier Field is located in bit 0 to bit

2 of the U-SIG of the second type radio frame, the bit 0 being a header of the U-SIG of the second type radio frame, and the Bandwidth Field is located in bit 3 to a specific bit of the U-SIG of the second type radio frame.

[Claim 6]

A communication method executed by a communication device, comprising

a transmission step of transmitting a radio frame including a preamble for physical layers (PHY) and compliant with an IEEE 802.11 standard series, wherein

the preamble includes at least a Legacy Signal Field (L-SIG) and a Universal Signal Field (U-SIG) communicated after the L-SIG in the radio frame,

the U-SIG includes a PHY Version Identifier Field relating to a PHY version with which the radio frame is compliant, and a Bandwidth Field,

the transmission step enables transmission of a first type radio frame in which 0 is stored in the PHY Version Identifier Field, and a second type radio frame in which specific value greater than 0 is stored in the PHY Version Identifier Field, and

when the second type radio frame in which the specific value greater than 0 is stored in the PHY Version Identifier Field and a value 6 is stored in the Bandwidth Field is to be transmitted, the second type radio frame using a bandwidth of 480 MHz is transmitted in the transmission step.

[Claim 7]

A program for causing a computer to function as the communication device according to Claim 1.

[Claim 8]

The communication device according to Claim 1, wherein when the second type radio frame in which the specific value is stored in the PHY Version Identifier Field and a value of 7 is stored in the Bandwidth Field is to be transmitted, the transmission means transmits the second type radio frame using a bandwidth of 640 MHz.

[Claim 9]

A communication device comprising

transmission means for transmitting a radio frame including a preamble for physical layers (PHY) and compliant with an IEEE 802.11 standard series, wherein the preamble

includes at least a Legacy Signal Field (L-SIG) and a Universal Signal Field (U-SIG) communicated after the L-SIG in the radio frame,

the U-SIG includes a PHY Version Identifier Field relating to a PHY version with which the radio frame is compliant, and a Bandwidth Field,

the transmission means enables transmission of a first type radio frame in which 0 is stored in the PHY Version Identifier Field, and a second type radio frame in which a specific value greater than 0 is stored in the PHY Version Identifier Field, and

when the second type radio frame in which the specific value is stored in the PHY Version Identifier Field and a second specific value greater than 5 is stored in the Bandwidth Field is to be transmitted, the transmission means transmits the second type radio frame using a bandwidth of 640 MHz.

[Claim 10]

The communication device according to Claim 9, wherein the second specific value is 7.