

desirable.

[0004]

For example, Patent Literature 1 discloses a technology for efficiently performing media access by temporarily changing a carrier sense level.

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Citation List

Patent Literature

[0005]

Patent Literature 1: JP 2007-134905A

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Summary of Invention

Technical Problem

[0006]

15 In the technology disclosed in the foregoing Patent Literature, however, an inequality of transmission opportunities may occur since a wireless terminal having changed a carrier sense level is more likely to acquire a right to transmit data than a wireless terminal which has not changed the carrier sense level. Accordingly, in the present disclosure, it is desirable to provide a novel and improved wireless communication device and a novel and improved wireless communication method
20 capable of reducing an inequality of transmission opportunities occurring when a carrier sense level is changed.

Solution to Problem

[0007]

25 According to a first aspect of the present invention, there is provided a wireless communication device including: a wireless communication unit configured to perform wireless communication with another device; and a control unit configured to set a first carrier sense level and control a parameter used by the wireless communication unit to transmit data based on a comparison result between
30 the set first carrier sense level and a second carrier sense level which is a default.

[0008]

According to a second aspect of the present invention, there is provided a wireless communication device including: a wireless communication unit configured to perform wireless communication with other devices; and a control unit configured to generate information for setting a parameter that is used by the other devices to transmit data and that is set based on a comparison result between a second carrier sense level which is a default and a first carrier sense level set in the other devices which are capable of changing a carrier sense level, wherein the wireless communication unit transmits the information for setting the parameter used by the other devices to transmit the data to the other devices.

10 [0009]

According to a third aspect of the present invention, there is provided a wireless communication method in a wireless communication device performing wireless communication with another device, the method including: setting a first carrier sense level and controlling a parameter used to transmit data based on a comparison result between the set first carrier sense level and a second carrier sense level which is a default.

[0010]

According to a fourth aspect of the present invention, there is provided a wireless communication method in a wireless communication device performing wireless communication with another device, the method including: generating information for setting a parameter that is used by the other device to transmit data and that is set based on a comparison result between a second carrier sense level which is a default and a first carrier sense level set in the other device which is capable of changing a carrier sense level; and transmitting the information for setting the parameter used by the other device to transmit the data to the other device.

Advantageous Effects of Invention

[0011]

According to embodiments of the present invention described above, it is possible to reduce an inequality of transmission opportunities occurring when a carrier sense level is changed. Note that the effects described above are not necessarily limitative.