Citation List

Patent Literature

[0005]

Patent Literature 1: JP 2014-78785A

Disclosure of Invention

Technical Problem

[0006]

In the above-described technique of the related art, a group which has already been formed can be changed.

[0007]

Here, for example, when a group to which a large number of information processing devices belongs is changed or a new group in which the number of information processing devices is large is formed, a processing time may become long in accordance with the number of information processing devices. Thus, it is important to perform a process related to group formation rapidly.

[0008]

Embodiments of the present invention are devised in view of these circumstances and perform a process related to group formation rapidly.

Solution to Problem

[0009]

According to a first aspect of the present invention, there is provided an information processing device comprising: a wireless communication unit configured to interchange a stream for outputting image information from a first information processing device by using wireless communication, the first information processing device belonging to a first group to which one or more information processing devices including the own device belong; and a control unit configured to perform control such that capability information regarding the one or more information processing devices is exchanged with a second information processing device belonging to a second group which is a new group other than the first group when the second group is formed.

Accordingly, it is possible to obtain an operational effect in which the capability information regarding the one or more information processing devices is exchanged with the second information processing devices belong to the second group when the second group is formed.

[0010]

In addition, according to the first aspect, the control unit may perform control such that a process of exchanging a request and a response with the second information processing device is performed, the request and the response including information regarding a usable frequency channel or data transmission band. Accordingly, it is possible to obtain an operational effect of performing the process of exchanging the request and the response including the information regarding the usable frequency channel or the data transmission band with the second information processing device.

[0011]

In addition, according to the first aspect, the control unit may perform control such that a group changing request including predetermined band information is transmitted to the second information processing device before the process of exchanging the request and the response when the second group is formed. Accordingly, it is possible to obtain an operational effect in which the group

changing request including the predetermined band information is transmitted to the second information processing device, earlier than the process of exchanging the request and the response when the second group is formed.

[0012]

In addition, according to the first aspect, the control unit may perform control such that the process of exchanging the request and the response is realized through provision discovery. Accordingly, it is possible to obtain an operational effect in which the process of exchanging the request and the response is realized

[0024]

In addition, according to the first aspect, when the first information processing device does not have a concurrent function, the first information processing device may transmit the capability information managed by the first information processing device to the second information processing device for disconnection from the first group. Accordingly, it is possible to obtain an operational effect in which the first information processing device transmits the capability information managed by the first information processing device to the second information processing device for disconnection from the first group when the first information processing device has no concurrent function.

[0025]

In addition, according to the first aspect, the capability information may include at least one of information regarding a frequency to be used, information regarding a transmission rate to be used, and information regarding whether there is a concurrent function. Accordingly, it is possible to obtain an operational effect in which at least one of the information regarding the frequency to be used, the information regarding the transmission rate to be used, and the information regarding whether there is the concurrent function is notified of as the capability information.

[0025a]

According to a second aspect of the present invention, there is provided an information processing method comprising: a communication procedure of interchanging a stream for outputting image information from a first information processing device by using wireless communication, the first information processing device belonging to a first group to which one or more information processing devices belong; and a control procedure of performing control such that capability information regarding the one or more information processing devices is exchanged with a second information processing device belonging to a second group which is a new group other than the first group when the second group is formed.

[0025b]

According to a third aspect of the present invention, there is provided a program causing a computer to perform: a communication procedure of

interchanging a stream for outputting image information from a first information processing device by using wireless communication, the first information processing device belonging to a first group to which one or more information processing devices belong; and a control procedure of performing control such that capability information regarding the one or more information processing devices is exchanged with a second information processing device belonging to a second group which is a new group other than the first group when the second group is formed.

Advantageous Effects of Invention

[0026]

According to embodiments of the present invention, it is possible to obtain an excellent advantageous effect of performing a process related to group formation rapidly. It is not necessarily limited to the effect described herein, and any effect described in the present disclosure may be included.

Brief Description of Drawings

[0027]

[FIG. 1] FIG. 1 is a block diagram illustrating a system configuration example of a communication system 100 according to a first embodiment of the present technology.