[0022]

Accordingly, further improvement has been needed with the aforementioned PTL 2.

[0023]

In light of the above consideration, the present inventor studied a control method of information devices where, although a display screen showing the room layout diagram of the building cannot be used in common among multiple users, a display screen can be generated showing a room layout diagram of the building which can be individually customized for each user extremely easily, and thus has arrived at the invention of the aspects in the present disclosure described below.

[0023a]

According to an aspect, a method for controlling a computer of an information device, which connects to a network via which one or more subject devices are controlled, and which has a display is described. The method comprising:

displaying, on the display, a room selection screen for selection of a room where an unregistered first subject device is installed, in a case of managing using memory the unregistered first subject device as one of the one or more subject devices;

managing the unregistered first subject device as a registered first subject device by associating the unregistered first subject device with a first room, based on selection of the first room from the room selection screen;

generating a room list screen including a first room icon representing the first room to display the room list screen on the display; and

in a case of detecting selection of the first room icon from the room list screen, displaying on the display a first device list screen in replacement of the room list screen, wherein the first device list screen relates to the first room and includes a first operating screen for operating the registered first subject device.

[0023b]

According to another aspect, a non-transitory computer-readable recording medium storing a program executed at an information device, which connects to a network via which one or more subject devices are controlled, and which has a display is described, therein

the program causes a computer of the information device to:

display, on the display, a room selection screen for selection of a room where the unregistered first subject device is installed, in a case of managing using memory the unregistered first subject device as one of the one or more subject devices;

manage the unregistered first subject device as a registered first subject device by associating the unregistered first subject device with a first room based on selection of the first room from the room selection screen;

generate a room list screen including a first room icon representing the first room to display the room list screen on the display; and

in a case of detecting selection of the first room icon from the room list screen, display, on the display, a device list screen in replacement of the room list screen, wherein the device list screen relates to the first room and includes a first operating screen for operating the registered first subject device.

[0023c]

According to yet another aspect, an information device is described, the information device in which the above program is installed.

[0024]

According to yet another aspect ~~of the present disclosure~~, in a control method of an information device, which connects to a network where one or more subject devices are controlled, and which has a display,

a computer of the information device is caused

to display, on the display, a room selection screen for selection of a room where an unregistered first subject device is installed, in a case of managing in memory the unregistered first subject device as the one or more subject devices,

to correlate the unregistered first subject device with a first room and manage as a registered subject device, based on selection of the first room from the room selection screen, and to generate a room list screen including a first room icon representing the first room and display the room list screen on the display, and

in a case of detecting selection of the first room icon from the room list screen, to display, on the display, a device list screen relating to the first room and including a first operating screen for operating the first subject device, instead of the room list screen.

[0025]

According to this aspect, in a case of managing in memory an unregistered first subject device as one or more subject devices, a room selection screen for selection of a room where an unregistered first subject device is installed is caused to be displayed on the display, so that the first room is caused to be selected in the room selection screen. Thus, the first room is caused to be managed in a correlated manner with the unregistered first subject device. That

CLAIMS

[Claim 1]

A control method of an information device, which connects to a network where one or more subject devices are controlled, and which has a display,

wherein a computer of the information device is caused

to display, on the display, a room selection screen for selection of a room where an unregistered first subject device is installed, in a case of managing in memory the unregistered first subject device as the one or more subject devices,

to correlate the unregistered first subject device with a first room and manage as a registered subject device, based on selection of the first room from the room selection screen, and to generate a room list screen including a first room icon representing the first room and display the room list screen on the display, and

in a case of detecting selection of the first room icon from the room list screen, to display, on the display, a device list screen relating to the first room and including a first operating screen for operating the first subject device, instead of the room list screen.

[Claim 2]

The control method according to Claim 1,

wherein a control command for controlling the first subject device is output to the network, based on an operation using the first operating screen.

[Claim 3]

The control method according to either Claim 1 or 2,

wherein the room selection screen for selection of a room where an unregistered second subject device is installed, is caused to be displayed on the display, in a case of managing in the memory the unregistered second subject device as the one or more subject devices,

the unregistered second subject device is caused to be correlated with the first room and managed as a registered subject device, based on the same room as the first room having been selected from the room selection screen, and the room list screen including the first room icon displayed on the display, and

in a case of detecting selection of the first room icon from the room list screen, the device list screen relating to the first room and including the first operating screen and a second operating screen for operating the second subject

device is caused to be generated, and displayed on the display, instead of the room list screen.

[Claim 4]

The control method according to any one of Claims 1 through 3,

wherein the room selection screen for selection of a room where an unregistered second subject device is installed, is caused to be displayed on the display, in a case of managing in the memory the unregistered second subject device as the one or more subject devices,

the unregistered second subject device is caused to be correlated with a second room which is different from the first room, based on selection of the second room from the room selection screen and managed as a registered subject device, and the room list screen including the first room icon and a second room icon which represents the second room is caused to be generated and displayed on the display, and

in a case of detecting selection of the second room icon from the room list screen, the device list screen relating to the second room and including a second operating screen for operating the second subject device is caused to be displayed on the display, instead of the room list screen.

[Claim 5]

The control method according to either Claim 1 or 2,

wherein, in a case of operating the first subject device, when selection of a menu icon for operating the one or more subject devices from the menu screen is detected, in a case where determination is made using memory managing information representing rooms where any of the one or more devices have been installed that the room where the any of the subject devices are installed is a plurality, the room list screen is caused to be displayed on the display, and the device list screen is caused to be displayed on the display instead of the room list screen, by selection of the first room icon using the room list screen,

and wherein, on the other hand, in a case where the room where the any of the subject devices are installed is only the first room, the device list screen is caused to be displayed on the display instead of the menu screen.

[Claim 6]

The control method according to either Claim 1 or 2,

wherein, in a case of operating the first subject device, when selection of a

menu icon for operating the one or more subject devices from the menu screen is detected, in a case where determination is made, using memory managing information representing whether or not any of the subject devices have been installed in each room, that the room where the any of the subject devices are installed is a plurality, the room list screen is caused to be displayed on the display, and the device list screen is caused to be displayed on the display instead of the room list screen, by selection of the first room icon using the room list screen,

and wherein, on the other hand, in a case where the room where the any of the subject devices are installed is only the first room, the device list screen is caused to be displayed on the display instead of the menu screen.

[Claim 7]

The control method according to any one of Claims 1 through 6,

wherein a room icon representing a room which is not managed correlated with any of the one or more subject devices is not displayed on the room list screen.

[Claim 8]

The control method according to any one of Claims 1 through 7,

wherein first device information representing each of the one or more subject devices acquired via the network, and second device information representing each of the one or more subject devices managed as registered subject devices in the memory, are caused to be matched,

and wherein, in a case where the unregistered first subject device exists as a result of the matching, the room selection screen is caused to be displayed on the display, to select the room where the unregistered first subject device has been installed.

[Claim 9]

The control method according to any one of Claims 1 through 7,

wherein first device information representing each of the one or more subject devices acquired via the network, and second device information representing each of the one or more subject devices managed as registered subject devices in the memory, are caused to be matched,

and wherein, in a case where one or more unregistered subject first devices exist as a result of the matching, a subject device list screen including the one or more unregistered subject devices is caused to be displayed on the display,

and when selection of the unregistered first subject device from the subject device list screen is detected, the room selection screen is caused to be displayed on the display, to select the room where the unregistered first subject device has been installed.

[Claim 10]

The control method according to any one of Claims 1 through 9,

wherein the information device manages log information of the one or more subject devices,

and wherein the computer of the information device is caused to

determine whether or not the power is on at one or more subject devices out of subject devices installed in the first room, based on the log information, and

in a case where determination is made that power is on at one or more subject devices out of subject devices installed in the first room, perform active display of the first room icon representing the first room in the room list screen.

[Claim 11]

The control method according to any one of Claims 1 through 10,

wherein the information device manages log information of the one or more subject devices,

and wherein the computer of the information device is caused to

determine whether or not the power is off at all subject devices out of subject devices installed in the first room, based on the log information, and

in a case where determination is made that power is off at all subject devices out of subject devices installed in the first room, perform inactive display of the first room icon representing the first room in the room list screen.

[Claim 12]

The control method according to Claim 11,

wherein the inactive display includes a grayed out display.

[Claim 13]

The control method according to Claim 1,

wherein the computer of the information device is caused

to display, on the display, a subject device list screen representing the one or more subject devices, based on device information representing each of

the one or more subject devices registered in the memory,

to display, on the display, the room selection screen for selecting a room where the first subject device is installed, when selection of the first subject device from the subject device list screen is detected,

in a case where the first subject device is managed in the memory as a registered device correlated with the first room where the first device is installed, to re-correlate and to manage the first device with a second room different from the first room based on having detected selection of the second room using the room selection screen, and to display, on the display, the room list screen including a room icon representing the second room, and

when detecting selection of the second room icon representing the second room from the room list screen, to display, on the display, the device list screen relating to the second room and including the first operating screen for operating the first subject device, instead of the room lost screen.

[Claim 14]

The control method according to Claim 13,

wherein, in a case where the first room is not managed correlated with any of the one or more subject devices, the first room icon representing the first room is not displayed on the room list screen.

[Claim 15]

The control method according to any one of Claims 1 through 14,

wherein a control command for controlling the first subject device is caused to be output to the network, based on an operation using the first operating screen.

[Claim 16]

A program executed at an information device, which connects to a network where one or more subject devices are controlled, and which has a display,

wherein a computer of the information device is caused

to display, on the display, a room selection screen for selection of a room where the unregistered first subject device is installed, in a case of managing in memory the unregistered first subject device as the one or more subject devices,

to correlate the unregistered first subject device with a first room and manage as a registered subject device, based on selection of the first room from the room selection screen, and to generate a room list screen including a first room icon representing the first room and display the room list screen on the

display, and

in a case of detecting selection of the first room icon from the room list screen, to display, on the display, a device list screen relating to the first room and including a first operating screen for operating the first subject device, instead of the room list screen.

[Claim 17]

An information device, in which the program according to Claim 16 is installed.

[Claim 18]

The information device according to Claim 17, comprising:

a television receiver.

Claims

1. A method for controlling a computer of an information device, which connects to a network via which one or more subject devices are controlled, and which has a display, the method comprising:

displaying, on the display, a room selection screen for selection of a room where an unregistered first subject device is installed, in a case of managing using memory the unregistered first subject device as one of the one or more subject devices;

managing the unregistered first subject device as a registered first subject device by associating the unregistered first subject device with a first room, based on selection of the first room from the room selection screen;

generating a room list screen including a first room icon representing the first room to display the room list screen on the display; and

in a case of detecting selection of the first room icon from the room list screen, displaying on the display a first device list screen in replacement of the room list screen, wherein the first device list screen relates to the first room and includes a first operating screen for operating the registered first subject device.

2. The method according to Claim 1,

wherein a control command for controlling the registered first subject device is output to the network, based on an operation using the first operating screen.

3. The method according to Claim 1, further comprising:

displaying the room selection screen on the display for selection of a room where an unregistered second subject device is installed, in a case of managing using the memory the unregistered second subject device as one of the one or more subject devices;

managing the unregistered second subject device as a registered second subject device by associating the unregistered second subject device with the first room, based on selection of the same room as the first room from the room selection screen, to display on the display the room list screen including the first room icon, and

in a case of detecting selection of the first room icon from the room list screen, generating the first device list screen which relates to the first room and includes i) the first operating screen and ii) a second operating screen for operating the registered second subject device, to display on the display the device list screen, in replacement of the room list screen.

4. The method according to Claim 1, further comprising:

displaying the room selection screen on the display for selection of a room where an unregistered second subject device is installed, in a case of managing using the memory the unregistered second subject device as one of the one or more subject devices,

managing the unregistered second subject device as a registered second subject device by associating the unregistered second subject device with a second room which is different from the first room, based on selection of the second room from the room selection screen;

generating the room list screen including i) the first room icon and ii) a second room icon which represents the second room, to display the room list screen on the display,

in a case of detecting selection of the second room icon from the room list screen, displaying on the display a second device list screen in replacement of the room list screen, wherein the second device list screen relates to the second room and includes a second operating screen for operating the second registered subject device.

5. The method according to Claim 1, further comprising:

displaying on the display the room list screen for operating the registered first subject device, when selection of a menu icon is detected from a menu screen for operating any of the one or more subject devices and when it is determined, using memory storing room information representing each room where each of the one or more subject devices is installed, that the one or more subject devices are installed in a plurality of rooms, and, displaying the device list screen on the display in replacement of the room list screen by selection of the first room icon on the room list screen; and

displaying on the display the device list screen in replacement of the menu screen for operating the registered first subject device, when selection of the menu icon is detected from the menu screen and when the one or more subject devices are installed is only the first room.

6. The method according to Claim 1, further comprising:

displaying on the display the room list screen for operating the registered first subject device, when selection of a menu icon is detected from a menu screen for operating any of the one or more subject devices and when it is determined, using memory storing room information representing whether or not each of the subject devices is installed in each room, that the one or more subject devices are installed is in a plurality of rooms, and displaying the device list screen on the display in replacement of the room list screen by selection of the first room icon on the room list screen; and

displaying on the display the device list screen in replacement of the menu screen for operating the registered first subject device, when selection of the menu icon is detected from the menu screen and when the one or more subject devices are installed is only the first room.

7. The method according to Claim 1,

wherein the room list screen does not include a room icon representing a room which is not associated with any of the one or more subject devices.

8. The method according to Claim 1, further comprising:

comparing first device information representing each of the one or more subject devices acquired via the network, with second device information representing each of the one or more subject devices managed as registered subject devices in the memory;

when an identifier identifying the unregistered first subject device is not included in the second device information, displaying the room selection screen

on the display, to select the room where the unregistered first subject device is installed.

9. The method according to Claim 1, further comprising:

comparing first device information representing each of the one or more subject devices acquired via the network, with second device information representing each of the one or more subject devices managed as registered subject devices in the memory;

when one or more identifiers identifying one or more unregistered subject devices are not included in the second device information, displaying on the display a subject device list screen including a subject device list that represents the one or more unregistered subject devices; and

when selection of the unregistered first subject device from the subject device list screen is detected, displaying on the display the room selection screen, for selection of the room where the unregistered first subject device is installed.

10. The method according to Claim 1,

wherein the information device manages log information of the one or more subject devices,

and wherein the method comprising:

determining whether or not the power is on at the one or more subject devices out of subject devices installed in the first room, based on the log information; and

when it is determined that power is on at the one or more subject devices installed in the first room, displaying in an active manner the first room icon representing the first room in the room list screen.

11. The method according to Claim 1,

wherein the information device manages log information of the one or more subject devices,

and wherein the method comprising:

determining whether or not the power is off at all subject devices installed in the first room, based on the log information; and

when it is determined that power is off at all subject devices installed in the first room, display in an inactive manner the first room icon representing the first room in the room list screen.

12. The method according to Claim 11,

wherein the displaying of the first room icon in the inactive manner includes displaying of the first room icon in a grayout state.

13. The method according to Claim 1, further comprising:

displaying, on the display, a subject device list screen representing the one or more subject devices, based on device information representing each of the one or more subject devices registered in the memory;

displaying, on the display, the room selection screen for selection of the room where the first subject device is installed, when selection of the first subject

device is detected from the subject device list screen;

re-managing, in a case where the first registered subject device is managed in the memory as one registered subject device associated with the first room where the first device is installed, the registered first subject device by re-associating the registered first subject device with a second room different from the first room based on selection of the second room using the room selection screen, to display, on the display, the room list screen including a second room icon representing the second room; and

when detecting selection of the second room icon representing the second room from the room list screen, displaying, on the display, the device list screen that relates to the second room and that includes the first operating screen for operating the registered first subject device, in replacement of the room list screen.

14. The method according to Claim 13,

wherein, in a case where the first room is not managed to be associated with any of the one or more subject devices, the first room icon representing the first room is not displayed on the room list screen.

15. The method according to Claim 1,

wherein a control command for controlling the registered first subject device is output to the network, based on an operation using the first operating screen.

16. A non-transitory computer-readable recording medium storing a program executed at an information device, which connects to a network via which one or more subject devices are controlled, and which has a display,

the program causing a computer of the information device to:

display, on the display, a room selection screen for selection of a room where the unregistered first subject device is installed, in a case of managing using memory the unregistered first subject device as one of the one or more subject devices;

manage the unregistered first subject device as a registered first subject device by associating the unregistered first subject device with a first room based on selection of the first room from the room selection screen;

generate a room list screen including a first room icon representing the first room to display the room list screen on the display; and

in a case of detecting selection of the first room icon from the room list screen, display, on the display, a device list screen in replacement of the room list screen, wherein the device list screen relates to the first room and includes a first operating screen for operating the registered first subject device.

17. An information device, in which the program according to Claim 16 is installed.

18. The information device according to Claim 17, comprising:

a television receiver.